

Vhf-Uhf DIGEST

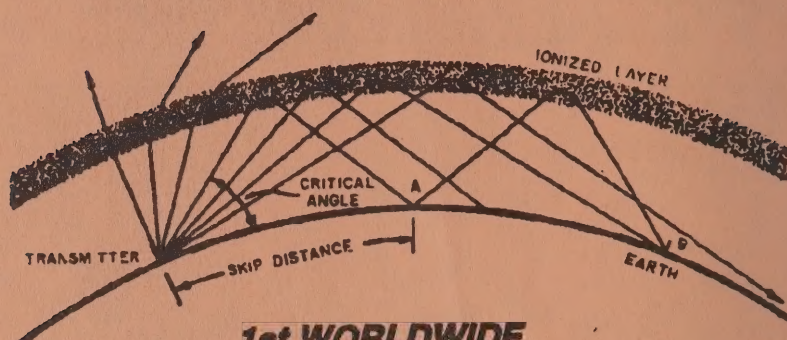
The Official Publication of the Worldwide TV-FM DX Association

APRIL 1992

—YOU'VE TUNED IN TO 91.6, K-VOID.
THE ONE SPOT ON YOUR DIAL WITH
NO PROGRAMMING WHATSOEVER.
—YOU'VE TUNED IN TO 91.6, K-VOID.
THE ONE.....



ANNOUNCING



1st WORLDWIDE VHF IONOSPHERIC PROPAGATION SYMPOSIUM

TO BE HELD IN CONJUNCTION WITH
THE CENTRAL STATES VHF SOCIETY ANNUAL CONFERENCE IN
KERRVILLE, TEXAS
JULY 16 - 19, 1992

PRELIMINARY CALL FOR PAPERS

The VHF IONOSPHERIC PROPAGATION SYMPOSIUM will be devoted to the study and dissemination of information relating to the ionospheric propagation of radio signals at 50 mhz and above. Because of the very high level of world-wide activity associated with the recent solar cycle peak, we expect there will be a special emphasis on presentations and discussions concerning SIX METER propagation. We encourage papers on all forms of ionospheric propagation including F-Layer, TEP, E-Skip, Scatter, Aurora, and FAI on 50 Mhz and above.

Those wishing to present papers in this symposium should submit an abstract to the Program Chairman (address below) as soon as possible, but not later than April 15th, 1992. (Papers on other VHF/UHF/Microwave topics should be submitted to: Derwin King, W5LUU, 7335 Wild Eagle Rd., San Antonio, TX 78255) All accepted papers will be included in the Proceedings of the Central States VHF Society published by the ARRL.

The symposium as well as the Central States Conference will be held at the YO Hilton Hotel in Kerrville, Texas - about an hour's drive from San Antonio. Most major air carriers service San Antonio.

In addition, a wild-west TEXAS STYLE BARBECUE, will be hosted by Bill Tynan - W3XO, CSVHFS 1991 President, on Sunday, July 19th at Bill's QTH on the Tierra Linda Ranch just outside of Kerrville.

To submit abstracts or for
Program information:

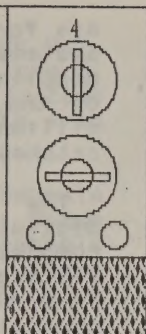
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Las Cruces, NM 88005
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Television News

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ABBREVIATIONS USED IN THIS COLUMN:

ERP= Effective Radiated Power, in kW
HAAT=Height Above Average Terrain, in meters
AAT= Above Average Terrain
AG= Above Ground
ASL= Above Sea Level
nc= No change
TL= Transmitter Location
CP= Construction permit
MP= Modification permit
(modification of construction permit)
*= Non-commercial

APPLICATIONS FOR NEW TV STATIONS

St	Ch	ERP	HAAT	City
TX	40	1460	113	Rio Grande C.

CONSTRUCTION PERMITS FOR NEW STATIONS

St	Ch	ERP	HAAT	City
MI	45	153.2	290	Vanderbilt

APPLICATIONS TO MODIFY CONSTRUCTION PERMITS

St	Ch	ERP	HAAT	Call	City
NE	15	2529	390	KPQC	Omaha
SD	12	316	259	KTTM	Huron

CONSTRUCTION PERMIT MODIFICATIONS GRANTED

St	Ch	ERP	HAAT	Call	City
GA	34	nc	nc	WUBI	Baxley
(TL change only: 31°45'53"N, 82°13'38"W 4.7km S of Ga 144, 11.6km E of Baxley)					
NC	14	1200	193	WYDO	Greenville
(TL:35°22'18"N, 77°24'04"W NC 118, 2.2km E of Grifton)					

APPLICATIONS TO CHANGE EXISTING STATIONS

St	Ch	ERP	HAAT	Call	City
OR	21	133	197	KTVZ	Bend
(TL: 44°04'40"N, 121°19'49"W (Awbrey Butte)					
SD	17	196.7	151	KTTW	Sioux Falls
(TL: 43°29'20"N, 96°45'40"W RR3 Yankton Rd.)					

APPLICATIONS TO CHANGE EXISTING STATIONS (Cont'd.)

St	Ch	ERP	HAAT	Call	City
VA	65	398	254	WZXX	Ashland
(TL: 37°44'32"N, 77°15'18"W					

CHANGES GRANTED TO EXISTING STATIONS

St	Ch	ERP	HAAT	Call	City
IA	15	2.213	363	KOIA-TV	Ottumwa
(TL: 41°11'42"N, 91°57'15"W 2.1km NNE of Ia. 1 and 78)					
NE	19	767.5	342	KXNE-TV	Norfolk
(TL: 42°14'15"N, 97°16'41"W Hwy. 98, 8km SW of Carroll)					
OH	43	204	264	WUAB	Lorain
PR	18	500	563	WSJU	San Juan
(TL: 18°16'44"N, 65°51'12"W Munic. of Loiza)					

CALL LETTER CHANGES FOR EXISTING STATIONS

St	Ch	Old	New	City
NC	30	WWRD	WEOU	Wilson
OR	32	KUTF	KEBN	Salem

CALLS GRANTED TO NEW STATIONS

St	Call	City
MT	KWYB	Butte; CTN
TX	KTRG	Del Rio; Republic Bcstg. Co.

OTHER STUFF

The Supreme Court has blocked attempts to ban "indecent" broadcasts. The Court let stand a lower court ruling that a 24-hour ban on indecency, ordered by Congress in 1988, is a violation of the right to free speech.

The ruling allows the FCC to continue to restrict such broadcasts to hours when, presumably, parents are controlling their children's viewing; currently, the Commission's policy is to presume this control between 8PM and 6AM.

Indecency is defined by the FCC as "language that describes in terms patently offensive, as measured by contemporary community standards for the broadcast medium, sexual or excretory activities and organs." Obscenity, which is banned at all times, is defined by the Supreme Court as "material that appeals to prurient interest and lacks serious artistic, literary, political or scientific value."

Also in the courts, the FCC's policy of giving preference to female applicants in license hearings has been overturned by the

U.S. Court of Appeals in Washington. New Supreme Court justice Clarence Thomas wrote the opinion, in which he said that the government has failed to show that female-owned stations are more likely to air programs beneficial to women.

Iowa State University is selling WOI-TV 5 Ames/Des Moines. WOI-TV is the ABC affiliate for the Des Moines market, and is unique in that WOI AM & FM are non-commercial public radio stations.

Locally, WKNT-40 Bowling Green, KY is back on the air. They're still pretty weak, seen only during tropo. Programming seems to be a relay of WGRB-34 Campbellsville, but with their own IDs.

FORUM

Bill Nienajadly, Clifton NJ:

Bill continues to provide greatly appreciated newspaper clippings...

According to the March 3 *NYC Daily News*, two stations have dropped the Howard Stern syndicated TV program. WFXT-25 Boston dropped it after the Feb. 8 program featured a "Kielbasa Queen" who stuffed a foot-long sausage down her throat. WNPL-46 Naples, FL didn't cite any specific episode, but said they were receiving too many complaints from the general public.

Also in the March 3 *Daily News*, WPIX-11 NYC (a commercial station) will be running 30-second PSAs encouraging viewers to watch WNET-13's pledge drive. WPIX's general manager Michael Eiegner says "We are all in business to serve the community. Public-supported TV is able to provide certain types of programs and services that commercial stations cannot." WNET, which lost \$3,500,000 in state funding last year, may lose another \$1 million this year, and hopes to raise \$3.4 million in this spring's pledge drive.

And from the March 4 *Newark Star-Ledger*, "Starting today and running for the next 8 weeks, federal officials at the Advanced Television Test Center in Virginia will begin testing a HDTV system developed by researchers at AT&T and Zenith Electronic Corp..." Their system is competing with 5 others to become the U.S. standard.

Testing is taking place under strict security, in an attempt to ensure unbiased evaluation. After 9AM March 4, AT&T/Zenith engineers were permitted no further adjustments to their equipment; test engineers

are forbidden to reveal how other systems have fared; and strict deadlines are applied. The creators of the winning system can expect millions in licensing fees if HDTV catches on.

The Zenith/AT&T system uses digital signal processing to compress the video information, fitting a high-definition picture into the 6MHz of a regular NTSC channel. The system also claims to be able to use the "taboo" UHF channels, allowing over-the-air HDTV broadcasts without allocation of new spectrum. A compression algorithm developed by Bell Labs cuts back on the amount of information that must be transmitted by predicting how objects in a scene will move, and transmitting data about stationary objects only once.

Two of the 5 HDTV systems being evaluated were developed at least partially in New Jersey; others are Japanese and European.

Roger Windsor, Valparaiso IN:

Roger left a message on my answering machine with some LPTV info; two new stations, W04CQ Chesterton and W18AT Gary. Both are apparently with a new "Dunes Television Network". (referring to the Indiana Dunes, on the south shore of Lake Michigan. I'll bet WTMJ-TV and WVTM cause plenty of CCI!

If you've got fast-breaking news, or just would rather not write, feel free to call at 615-356-8305, from 9AM-midnight Central time. (sorry, no collect calls; you'll probably get an answering machine anyway!)

FCC RULES PRIMER

Assorted TV technical rules:

Channels 5 and 6 were allocated to two-way radio in Alaska and Hawaii until a few years ago. Channel 17 is still unavailable for TV in Hawaii. Channel 37 is reserved for radio astronomy. (my understanding is that the resonant frequency of the hydrogen atom is in channel 37)

Full-power TV stations must use at least 100 watts ERP. Low-band VHF stations (channels 2-6) are limited to a maximum of 100kW; high-band (7-13) to 316kW; UHF to 5000kW. These are for antenna heights of 300m or less in Zone I, 600m in Zones II and III.

VHF stations on the same channel must be at least 272.7km apart in Zone I; 304.9km apart in Zone II;

and 353.2km in Zone III. For UHF, the separation is 248.6km in Zone I, 280.8km in Zone II, and 329km in Zone III. (these don't work out to even numbers in miles either!)

VHF stations on adjacent channels must be at least 95.7km apart. Since there are wide gaps between channels 4/5, 6/7, and 13/14, these restrictions don't apply to those channels.

UHF stations must be at least:

20 miles from other UHF's separated by 8 channels, due to IF heterodynes.

20 miles from other UHF's within 5 channels, due to intermodulation.

55 miles from adjacent-channel stations.

60 miles from UHF's 7 channels away, due to radiation of local oscillators.

60 miles from UHF's 14 channels away, due to the image of the aural carrier.

75 miles from UHF's 15 channels away, due to the image of the visual carrier.

These are the "taboo" channels. For example, in Wausau, Wis., home of WHRM-TV 20, UHF channels 15-25, 27, 28, 34, and 35 are all unavailable.

Zones I, II, and III are have different separations due to differences in population density and propagation. Roughly:

Zone I includes MA, CT, RI, NJ, PA, DE, MD, DC, WV, OH, IN, IL, and roughly the northern half of VA; southeastern quarter of WI; southern half of lower MI; NY south of Saratoga Springs; VT and NH south of Rutland; and coastal ME.

Zone III includes all of Florida and Gulf Coast regions, including GA south of a line from Brunswick to Columbus; roughly the southern halves of AL and MS; most of LA; and areas of TX within 150 miles of the Gulf Coast.

Zone II is the rest of the USA.

All TV stations (and radio, for that matter) must have at least one person holding a commercial radio operator license (of any class) on duty whenever the transmitter is on the air. This operator must be at the transmitter or an authorized remote control point. (there is nothing in the regulations specifying how close the operator must be to the

transmitter-- only that the operator is able to make necessary adjustments to keep the station legal.)

TV stations must also appoint a "Chief Operator", who must be a station employee (not a self-employed contract engineer) responsible for regular inspection of the transmitting equipment and calibration of monitors & meters, and for inspection and approval of the transmitter log.

TV stations may not control a "peculiarly suitable" transmitter site. For example, WNBC-TV could not obtain an exclusive contract for use of the World Trade Center for their antenna.

TV licenses are issued for 5-year terms. The expiration date varies depending on the state in which the station is located-- for example, in Tennessee, Kentucky, and Indiana, TV licenses expire on August 1 of this year; while in Illinois and Wisconsin, they expire on December 1.

Stations are required to identify themselves as close to the hour as feasible, at a natural break in programming. The ID may be aural, visual, or both.

Station IDs consist of the station's call letters immediately followed by the city of license. The name of the licensee or the station's channel number may be inserted, but nothing else. For example:

"WSMV, a Cook Inlet station, Nashville"

"WSMV, Channel 4, Nashville"

are both legal.

"WSMV, Your Wheel of Fortune Station, Nashville"

is not.

73 Doug





FM NEWS

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Adolph MN 55701-0024, U. S. A.

Contributions earnestly solicited!

Readers' Reports

A person I enjoyed meeting at the WTFDA convention is Tom Bryant, who sent a Nashville newspaper story on WRLT 100.1 Franklin TN, which could become non-commercial, if the public library, licensee of WPLN *90.3, has its way. Or, DXers might still get commercial programming on 100.1 if one of two bids for the channel, now in receivership (and presumably still on the air and DX ready), is approved by the FCC. A group headed by Ned Horton, WRLT manager, has offered \$411,000 for the station; this tops a bid of \$400,000 by Dallas-based KBR Broadcasting Group. The Library asks for more time to put together its bid, which would give it an advantage, since it knows what the other bids are. Horton, an "FM Atlas" reader, has another plan up his sleeve, and that is to take over unbuilt WYPE 94.1 Smyrna TN. WPLN would use 100.1 for its classical service, changing *90.3 to more talk, but presumably still carrying music and having stereo.

Ken Chatterton of the National Radio Club says "The 14th edition FM Atlas looks great," and he included a form letter mentioning a change in management of that club. Mike Knitter has "resigned all official positions with the club," and all correspondence should go to the PO Box 164, Mannsville NY 13661-0164 address. He mentions that others may be offering products and publications similar to the NRC's, which is legal. "We understand that some items may be offered under names similar to ours and noted as 'formerly the NRC (whatever)'. That statement should not be considered as true. The long-time AM Radio Log is being completely updated and will be issued by the NRC as scheduled on Sept. 1, 1992. We have not authorized the use of the NRC name directly or by inference by anyone." Ken said there will be no NRC FM map book or log: "didn't sell enough."

John Ebeling came back from a trip and confirmed that a DX target, YES-FM 104.1 in Barbados is 4 kw. I enjoyed getting the FM station database/printout from Fred Nordquist, who plans to use the new FM Atlas to find new cities to add to his political unit data files that are used in conjunction with calculating distances. He has reworked the data, segregating countries like Anguilla and Antigua from the U.S. states, and asks if I know the coordinates of "every hamlet, mountain peak and wide spot in the road (e.g. Quebec was especially troublesome) in the USA and Canada?" [All I know is the NTIS database for the U.S. and border areas of Canada and Mexico which lists coordinates; its address is found at the end of my "FM Atlas."'] Fred goes on:

"I am slowly working on a related project whereby I will be able to print FM/TV channel maps by computer, using the grid coordinates to locate and print station calls on 11 by 14 inch paper. It's going to take some time to add all of the frequencies to my existing city location database files. I've already developed the algorithms to translate the grid coordinates to print positions, along with menu-driven sizing of map coverages. DXing is nonexistent lately . . . I've been experimenting with antenna phasing techniques. Also,

the 110 kHz filter mod allowed me to switch my Carver TX-11A USA/European switch back from 50 kHz to 100 kHz increments since adjacent channel reception next to local powerhouses is no longer a problem. Keep up the good work on your FM Atlas and FM FCC columns."

"I like the new Atlas maps," writes Gus Mancuso. "The way they fill up the pages more. Hadn't thought of moving print closer to the middle seam. Very clever--with PA stretching state vertical only! Hey, you DO listen to me, changed WPLJ format to rs from r. Top 40 may be dead--WBSB, WAVA here both dropped it this winter. I'd be curious to know about other markets. Neither of above has carried a national top 40 countdown show in about a year. How about more info on the seeming power increases for translators? Would like to know which still are at 10 watts and which higher. Did anyone watch PBS show on three pioneers of early radio?" [A version of it was also on public radio, discussing Armstrong, de Forest and Sarnoff--b.e.] "Noticed a couple of Ontario FMs went off (CKO stations). What happened? Maps again: still think E. KY and E. TN on one map--western halves on another! What's with 'non-sequiter' handles? WRED using WTOD-FM [Gibsonburg-Toledo OH]. I don't get it. In process of making AM and FM same calls? You never printed my follow up on WMMX using false calls ('WMIX')." I think WTOD wants to save the WRED calls in case they want to use them on AM or FM later, while the new "FM Atlas" shows translators and boosters having over 100 watts in larger type on the maps. "Took notice of the new station in Ledyard CT [WBMW 106.5, \$]. A gambling casino is being built there on an Indian reservation. . . I had thought about a bandscan from the Groton/New London area. As you can see, it's away from any dial-crowded area, but close enough to NYC, Boston, Hartford, etc., plus close to ocean for that water enhancement." [I was there in the '60s and there were no local FMs then; only weak reception from Providence--b.e.] "Did you see that Mount Greylock bandscan? I told George that valleys are better than mountains--now he knows what I mean. Reception too stagnant when gain strong. Am going to tape the last 90 minutes of WAVA as top 40 tonite."

Returning from a trip to AZ is Karl Zuk. "KQST Sedona AZ is a Class A and probably won't move and go to Class C at 100,000 watts. Station is owned by an 87-year-old gentleman, and his son does drive time. Heavy metal, ugh! Yes, it's in stereo, and on 100.1! They are on their fourth extension of the CP for frequency/power change and with almost nonexistent ad time, I don't know how they will find the money to up their power. Also, commenting on p. 6 of the March VUD, re: WAMC Albany NY I disagree! The Mount Greylock is great. When WHPC/WBAU, both stereo, Garden City NY and WHCR (mono) New York NY are off 90.3 I can get WAMC on a \$10 walkman on the west side of Manhattan walking between big steel buildings. Their 90.3 signal is a super signal like WSPK 104.7 Poughkeepsie and WALK 97.5, both stereo, Patchogue."

[Yet the signal to the west in Troy is not good; perhaps obstructed by local terrain-b.e.] After he got back to NY, Karl received a list of AZ cable frequencies from Warner Cable of Sedona. That answers why he has heard such things as KNIX Phoenix on 104.7 and KAFF Flagstaff on 100.7--cable leakage.

Tennessee's Douglas E. Smith says local WFSK *88.1 Nashville still off the air, and he suspects this is permanent. I hope he calls and tries to find out what might be the situation there; the number is (615) 329-8754. Doug says WYQC 102.9's simulcast with WQZQ-FM 102.5 Dickson has failed; 102.5 now "b." It has a nonID of "Super Audio," and, gasp, no regular ID heard, "even on the hour." The new WQZQ-FM translator on 102.1 is on the air. WYYB 93.7 Dickson is on with mr, but I'd like to know if WYYB has stereo or not. "Noticed that you discuss LMAs in your new Atlas. In my humble opinion, LMAs are the wrong solution. They serve to prop up technically inferior stations (both AM and FM). The real solution is to let those inferior facilities dry up and go away, eliminating their interference to existing stations."

Ronald Purdue sent word about a new FM in Stewartville MN, KYBA on 105.3, not yet on air, but with tower to be built between Austin and Rochester. It is listed as 3 kw, but apparently is working to get 50 kw approval. KWWK Rochester expects to move from 96.7 to 96.5 with 39,100 watts this spring, while KRCH 101.7 has already achieved 50,000 DX-ready watts.

Robert Grant comments on Detroit radio, including the change from b to mr for WJOL 97.1--a change making that station less distinctive to the FM DXer--with ads that say "no elevator music." He sent a reprint from a local leftist newspaper, the "Metro Times," mentioning a short-lived pirate on 106.3, calling itself "Radio Free Detroit." Robert briefly heard the pirate one Thursday night "while driving home on the I-75 freeway, they were under the noise less than 1.6 km from the area of the 'Cass Corridor' they were transmitting from, getting killed by WWWW 106.7, also with downtown transmitter. I knew once the station had gone 'high profile' by being exposed in the Metro Times that the FCC would swoop in, sure enough, as the Detroit News article states, the FCC had already busted the station before I heard it, but could not shut off the station without a search warrant. RFD 106.3 has not been heard since. They could probably cover better, legally, with a 1-watt transmitter in the longwave band, but if it were legal, RFD probably would not want to do it anyway; the rebellion is the product, not the broadcast!"

Ernie Cooper orders an FM Atlas and keeps hoping "I'll find the type of programming in the listing by frequency, have suggested it several times, but I guess I have to give up. It sure would be a big help to DXers!" [I'm sorry to have to keep disappointing you, Ernie, but the space available and computer program I am using will not permit it--it would also take too much of my time to keep track of formats two ways--by geography and by frequency. I want to cut down my workload, for like you I am not getting any younger!]

Stephen West sent several PA area updates, and then noted on p. 7, March, West Palm Beach PA? Naturally that correction for WIRK 107.9 should read FL. WKSZ 100.3 Media PA now advertises a 50/50 mix of oldies and today. Supplying a list of Bible Broadcasting Network stations was Ken Onyschuk. One of the latest

is the sale of WSOC AM Charlotte to that religious network, forcing the FM on 103.7 to become WSOC"-FM" (from WSOC-FM).

Chris Dunne says the LMA between WXDJ 95.7 and WRTO 98.3 in S. FL has ended, with each assuming their own identities. WRTO now 100 kw, C, and displacing WCOO Immokalee, which will next appear on 92.1. "I dropped the idea of 110 filter in the Superadio since I use phasing to catch some adjacents, but that might change. . . WKRY's power increase (93.5 Key West) will hurt my chances of hearing Santa Clara, CUBA on 93.5, but had a great (but brief) tropo opening to Cuba on 2/24 with 93.5 and a Radio Encyclopedia (Cuba) 88.7 (may be Santa Clara, too)."

Tracy Wood has moved to Atlanta, "where intermod is terrible," and he says WFGG *88.3 Fort Gordon, about to be usurped by a new FM in Belvedere SC, WUOZ, has retreated to an antenna atop its studio building from the water tower, and will be looking for a new frequency, possibly the 89.9 one abandoned when WYFA changed. He was in OR and noted FM 107.5 Banks "is nothing but a relay of K-Love from Santa Rosa CA--same group which runs Prunedale-Salinas FM." WMVV *90.7 McDonough GA still off the air, seems they are looking for a new site farther north. He's working with GA Tech to try to get an experimental license and test multipath resolution techniques. "A few years ago an outfit in Portland OR had a request for 104.1 to run low power experiments. Who is that outfit? Also somebody in PA has experimental FM license as Glenn Hauser reported." [I have no idea who to contact regarding those experiments, but you can get from the FCC a form to construct an experimental broadcasting station. However, good luck in getting the FCC to approve such; it is my experience the FCC is usually loathe to grant such requests--b.e.]

Hearing an FM pirate was Wendell Ford, a "WVTI" at Valparaiso [IN] Technical Institute, with 100 mw on 90.5. But one night he got 'em loud and clear on 88.3 when WDSO Chesterton IN was off for Christmas vacation. It is heard usually on Sunday nights and when on 88.3 was received 16 km away, with only minor interference from WVPE *88.1 Elkhart. Wendell must have a more selective car radio than Robert Grant! Wendell claims WLS-FM 94.7 Chicago is stereo, but I have my doubts. It must be proven that they actually broadcast at least 15 minutes of music a week in FM stereo or have at least 10 seconds of audio theme music per hour with stereo separation, exclusive of commercials and station promos, for it to merit a stereo listing in my book. I guess I'll have to contact their chief engineer, Warren Schulz, who is an FM Atlas reader, to get the real story.

On air and DX ready--WEDW *88.5 Bridgeport CT, in stereo, reports Bill Nienajadly, and it gives its IDs with other CT Public Radio network stations. Also on is WOSR *91.7, \$, Middletown NY with the "WAMC Network." They put out an "OK signal here and they are heard" in the car. Rich Shaftan says they're very strong by him and Bob Smolarek gets WOSR well too. The 110 kHz filters arrived after only a four week wait; Digi-Key said originally 10-14 weeks. . . 1992 FM Atlas is great, another job well done! But the indication of all the new stations coming on not just here but everywhere, shows the need for phasing these new 'pests'. Fred Nordquist mentioned about 'torroids at 100 mHz' to be

used for phasing and 'directional couplers'. I wrote to him asking for more info. Bruce, they repealed the 'mobile scanner law' here in NJ and replaced it with something more intelligent." Bill sent a copy of the act repealing PL 1977, c. 426. He also sent a story about WFMV 106.3 planning to relocate its antenna from atop a fire warden's along the Appalachian Trail. The new site will "have a negative impact on the trail and its 50,000 users annually," permitting the manning of the fire tower and WFMV not to have to leave the air. The tower ceased being used because of concerns of radiation to the personnel working there.

Dr. Joel Rosenberg says this "column has kept up-to-date on the Toronto FM wars, other than that CJEZ 97.3 has added more vocals, contemporary, and less elevator music. Blank carrier occasionally heard on 89.3; no sign of Rawlco [92.5] yet." D. Bruce Hall sent the BBM ratings from Toronto showing CFRB/CFRX still in the lead. "I was most interested to read in your FM News about the transplant of 110 kHz filters in Rich Shaftan's JVC unit since I use the same unit myself with three 150s installed. I wrote Bill Nienajadly to ask about any improvement and availability of 110s." [I have 10 of the 110s on order from Digi-Key; and they tell me they have an additional 10 on order. This makes it seem they only special order the 110s for DXers like us] Bruce says, "I hope with the arrival of my new 14th edition of the FM Atlas that it will bring along with it better DX conditions for better enjoyment of our hobby."

Mike Hogan gives the encouraging word that he's "finally back to WTFDA and FM DXing." I had a nice note from Gary Olson, mentioning surprise that the FM Atlas, which had been in the planning stages over 20 years ago when we lived in the Milwaukee area, is still around.

Writes Nick Lombardi: "The problem with FCC-FM these days is that it is a mere shadow of its former self. Many of the former categories aren't even reported any more, and those which are are often abbreviated or 'selected'." He then corrects on the location of Valley AL, being on the GA border near West Point (the West Point dot

should be in GA, not AL, p. 33 map).

Now look for "See Also," where I summarize what was in last month's VUD of interest here.

New FM Station, Translator Grants

AL Glencoe WZJV 93.1 3000 h.v; 100 m
AZ Tucson K255AC *98.9 (KJZZ 91.5 Phoenix; translator; had operated as K205BP 88.9)
CA San City 92.9 3000 h.v; 100 m
CT Pawcatuck 107.7 3000 h.v; 100 m
HI Hilo 95.9 59000 h.v; -70 m, Pacific View Bcstg. [91.1 Carlinville]
IL Jacksonville W212AN *90.3 (WIBI/
IA Sioux City K269EF *101.7 (KGBI 100.7 Omaha NE), transmitter S. Sioux City NE
KS Clearwater (Wichita) 98.7 6000 h.v; 100 m
LA Baker (Baton Rouge) 107.3 3000 h.v; 100 m
LA Lake Charles K215AO *90.9 (KVLU 91.3 Beaumont TX), on air [Rapids MN]
MN Bemidji K234AA *94.7 (KAXE 91.7 Grand/
MT Helena *103.1 100000 h.v; 584 m, g, Hi-Line Radio Fellowship [106.9 Reno]
NV Incline Village K292EP 106.3 (KRNO-FM/
NV Reno K202BR *88.3 (KCNH 90.1 Stockton CA), site 20 km SSW [Radio, Inc.
NH Hanover *91.3 150 h.v; 378 m, NH Public/
NJ Belvidere 107.1 3900 h.v; 120 m, Radio NJ
ND Beulah 97.9 6000 h.v; 100 m
OH Lebanon 97.3 3000 h.v; 100 m, McMurray
OR Prineville K240CG 95.9 (KNLR 97.5 Bend)
TN Colonial Heights 105.9 6000 h.v; 100 m
TN Lawrenceburg W287AA 105.3 (WNDA 95.1 Huntsville AL)
TX San Antonio KYFS *90.9, \$, g, 3000 h.v; 91 m, Bible Broadcasting Network (calls changed from 88.3 station) [& Henry College
VA Emory *90.7 100 watts h.v; 29 m, Emory/
VA Virginia Beach 102.1 3000 h.v; 100 m, Stacy C. Brody [Tom Kwaitkowski
WI Lake Geneva 96.1 3000 h.v; 100 m,/
VI Christiansted WIVH *90.1 500 h.v; 240 m, g
BC McBride 101.1 19 watts h
104.1 19 watts h

Call Letters Assigned or Changed

AL Millbrook 97.1 WXE
CA Avalon 92.7 KRCI (KOU)
CA Paradise 96.7 KZZP (KNVR)
CO Boulder 94.7 KJHI (KSSP), LMA with KQKS 104.3 Longmont
CO Strasburg 102.3 KAGM
FL Cocoa Beach 101.1 WVRI (WSTF), rm
FL Lacanto *88.3 WDSP (WZQF)
GA Augusta 103.1 WFXA-FM (WFXA-FM; AM gets new calls)
GA Broxtown 103.7 WXE
GA Fort Gaines *90.9 WJWV
GA Toccoa 106.1 WLET-FM (WZLI), rk
HI Hali'imaile 105.5 KWYA
HI Honolulu 105.1 KINE-FM (KHFX); AM is in Kingsville TX; m [Hawaiian music]
ID McCall 101.1 KMCL-FM (KMCL)
ID Sun Valley *91.9 KWRV (KFTN), to be \$, c
IL Norris City *90.1 WZJN
IN Brazil 97.7 WSDM-FM (WSDM)
IN Bremen 96.9 WYEZ (WMJC)
IN Versailles 103.1 WXCH (WRIP)
KY Eminence 105.7 WXLN-FM (WXLN-FM; AM in Louisville gets new calls)
KY Louisville 99.7 WDJX-FM (WDJX)
MI Ann Arbor 102.9 WIOB-FM (WIOB; AM is in Saline MI)
MI Gulliver 94.7 WCMW (WTIQ-FM)
MN Waite Park 103.7 KLZZ (KXSS-FM), rm
MO Potosi 97.7 KHCR (KWVB)
NE Norfolk *90.9 KPNO
NV Tonopah 92.7 KHVK (KPAH)
NH Manchester *91.7 WQCC
NJ Vails 98.7 WFNN (WLQE), rm, "Fun 98.7"
NY Catskill 98.5 WCTW (WQKZ)

NY Chateaugay 94.7 WXEB
NY Monticello 99.7 WXTM
NY Morristown 102.9 WXED
NY Rochester 97.9 WPXY-FM (WPXY)
NY Smithtown 94.3 WMJC (WCTO), "Magic 94.3"
OH Englewood 94.5 WZJX
OH Wauseon 96.9 WZJU
OR Coos Bay 106.5 KYFG-FM (KYNG-FM)
OR Newport 92.7 KCLM
OR Seaside 94.7 KBRD (KQEM)
OR Toledo 100.7 KZUS-FM (KZUS)
PA Harrisburg 97.3 WRVV (WHP-FM)
PA Mountaintop 97.1 WYRM (WQZM), nt, mono, parallel to WARM (AM) Scranton
SC Georgetown 93.7 WSCA (WTUB)
SC Pawleys Island 98.5 WDAI
TN Germantown 94.1 (from 94.3) WODZ (WFGI), "Oldies 94," to 50000 h.v; 144 m, d-a (directional antenna)
TN Millington 98.1 WPYR (KPYR)
TN Newport 92.9 WNPC-FM
TN Ripley 94.1 WTRB-FM (WYHF)
TX Austin 95.5 KKMJ-FM (KKMJ-FM; AM in Rollingwood gets new calls)
TX Brenham 106.1 KTTX (KWHI-FM), "K-Tex"
TX Dallas 105.3 KRRM (KRSR), "Young Country 105.3" (and "FM-105")
TX El Paso 94.7 KSET (KAMA-FM), k, new LMA with KPRR 102.1 El Paso [-Frog]
TX Harlingen 94.5 KFRQ (KELT), k, "K-"
TX Luling 94.7 KFGI (KTG), o; LMA with KKMJ 95.5 Austin and its AM
TX New Braunfels *89.9 KTSW (KQEI)
TX San Antonio *88.3 KPAC (KYSF), \$, c (moving from 90.9, which will be KYFS)
99.5 KISS-FM (KISS-FM; AM in Terrell Hills gets new calls) [FM; AM gets new calls]
TX Terrell Hills 106.7 KMMX-FM (KMMX-/
TX Tyler 92.1 KGLD (KRQZ), o, "Oldies 92.1"
UT Roy 107.9 KZQQ-FM (KZQQ; AM is in West Valley City UT)
UT Salt Lake City 98.7 KCPX-FM (KCPX)
VA Staunton 93.1 WKDW-FM (WSGM), k, AM-FM simulcast [WAPP 105.5 Berryville
VA Strasburg 104.9 WBPP (WESI), o, parallel to/
WI Nekoosa 93.7 WXEC
WI Waunakee 105.1 WYZM (WIMM)
MB Winnipeg 91.1 CKXL, \$, 233 m (58000 h.v), on air, F ["The Wolf"]
ON Peterborough 101.5 CKWF (CFMP), op./

Facilities Changes Granted

AZ Buckeye KMJK 106.9 93 m (6000 h.v)
AZ Oro Valley KRKN 97.5 -35 m (3000 h.v)
AR Jonesboro KJBR 101.9 323 m (100000 h.v)
AR Little Rock KUAR *89.1 100000 h.v; 388 m
CA Baker (new) 101.5 4600 h.v; 393 m
CA Camarillo KELF 95.9 248 m (430 h.v), B1
CA Los Angeles KKLX 99.5 30000 h.v; 204 m
CA Morgan Hill KSQQ 96.1 1000 h.v (238 m)
CA Oakdale KDJK 95.1 16000 h.v; 267 m, d-a
CA Quincy KNLF 95.9 (from 103.1)
CA Riverside KHTX 97.5 72000 h.v (479 m), o, "K-Hits 97.5 FM")
CA Santa Barbara KFAC *88.7 12000 h.v; 264 m
CA Vacaville KUIK 95.3 590 h.v; 594 m
FL Goulds WRTQ 98.3 429 m (100000 h.v), now "Radio Ritmo" (from "Radio El Sol")
FL Immokalee WCOO moving to 92.1 (from 98.3), off air because of WRTQ going to a C
FL Key Largo WZMQ 103.9 50000 h.v; 71 m, C2, from Tavernier FL ["back to"]
FL Marco WGUF 92.7 4100 h.v (100 m), b,/
GA Leesburg WEGC 103.7 3200 h.v (100 m)
IL Rantoul WLTW 96.1 3800 h.v; 123 m
IN Roanoke WQTX 94.1 (from 105.1) 2200 h.v; 117 m
IA Eddyville KKSJ 101.5 49000 h.v; 152 m
IA Keokuk KOKX-FM 95.3 (remove from 96.3—unclear whether it will move to 96.3, or if another station will take over the 96.3 spot), now "K Country 95.3"

IA Muscatine KFMH 99.7 100000 h.v.; 273 m
 KY Barbourville WYWF-FM 96.1 (from 93.5)
 25000 h.v. (91 m), C3 [h.v. (146 m)]
 KY Greenup WLGC 105.7 (from 105.5) 11700/
 LA Leesville KVVP 105.7 (from 105.5) 25000
 h.v. (100 m), C3
 LA Natchitoches K280CK *103.9 has KVDP
 *89.1 Dry Prong on it (from KAJN 102.9
 Crowley)
 LA Varnado WBOX-FM 92.9 (from 92.7)
 MA Concord WIQH *88.3 7 m (10 h; applying
 for 100 w h) [98.7 2800 h.v.; 150 m
 MI Grand Rapids WXJL [BK 101.7]
 MN La Crescent K201BW *88.1 (from K269-/
 MN Springfield KLPR 94.7 (from 105.7)
 MO Ballwin KYMC *89.7 120 h.v.; 52 m, adds
 vertical [h.v.; 148 m, C3
 MO Columbia KCMQ 96.5 (from 96.7) 11000/
 MO Moberly K2TT 105.5 25000 h.v.; 94 m
 MO Warrenton KFAV 99.9 6000 h.v. (156 m), C3
 NH Keene WKNE-FM 103.7 12200 h.v.; 302 m
 NJ Eatontown WHTG-FM 106.3 3900 h.v. (71 m)
 NJ Oakhurst W244AS 92.7 has WOBM-FM 92.7
 Toms River (from WHTZ 100.3 Newark)
 NY Middletown WOSR *91.7 1800 h.v.; 192 m
 NY Stillwater WSSV 101.3 3700 h.v.; 126 m
 OH Galion WQLX 102.3 3500 h.v.; 131 m
 OR Klamath Falls KTEC *89.5 182 m (210 h.v.)
 OR Milton-Freewater KLBW 97.9 5100 h.v.; 215
 m, C3
 PA Nanticoke WYOS 92.1 760 h.v.; 202 m
 PA Tioga WPHD 94.7 820 h.v.; 273 m
 RI Middletown WOTB 100.3 6000 h.v.; 92 m, d-a
 SC Batesburg WKWQ 95.3 6000 h.v. (91 m)
 SC Ravenel WMGL 101.7 6500 h.v.; 129 m
 SD Pierre KLXS 95.3 50000 h.v. (91 m), C2
 SD Volga KKKQ 102.5 (from 102.3) 25000 h.v.;
 74 m, C3 [(100 m), C3
 TN Waynesboro WTNR-FM 94.9 25000 h.v./
 TX Canyon KAKS-FM 107.9 418 m (100000
 h.v.) [87 m (3000 h.v.)
 TX Corpus Christi KBSO 94.7/ [adds v; B1
 VA Norfolk WNSB *91.1 18000 h.v.; 91 m./
 WA Wenatchee KSSY 104.9 6100 h.v.; 403 m
 WA Yakima K201AS *88.1 (from K208BM 89.5;
 KYSC 88.5 not to be built?) [m, B1
 WV Buckhannon WBTV 93.5 2800 h.v.; 164/
 WV Ravenswood WRZZ 106.1 1840 h.v. (184 m)
 BC Pemberton CKRW-6 106.74 watts h.v. (16 m)
 ON Oshweken (new) 100.3 to be nonprofit, but
 commercial, with eight hours a week of
 native-language material
 BN Tijuana XHTIM 91.7 (from 103.3), but
 temporarily on 91.5. I am second-guessing
 they will move to 91.7, which KUSC's chief
 engineer agrees will be a "workable solution."

Stereo—or to be Stereo

AZ Cottonwood KVRD-FM 105.7, "Country
 105"
 FL Miami WDNA *88.9
 GA Sylva WZBX 106.5
 GA Valdosta WWRQ 107.7, rp, "Q-107"
 KY Madisonville WTTL-FM 106.9
 LA New Iberia KKZN 93.7 rp, "Z-93.7," ID with
 Lafayette, parallel to KVOL-FM 105.9
 Opelousas-Lafayette
 MN Browerville KXDL 99.7
 MN Rushford KWNO-FM 99.3
 MO Sparta KLTQ 96.5, k, LMA with KKHT 98.7
 Springfield and its AM; "Hot Country 96.5."
 Not "off the air," as shown last month
 NE Lincoln KFGE 105.3
 NM Roswell KVN 104.7
 NY Ravena WRAV 94.5
 OR Harbeck-Fruitdale KAJO-FM 98.3
 PA Berwick WKAB 103.5, o, SMN Pure,
 "B-103," A "surprisingly good signal."
 TN Harrogate WXJB 96.5
 TX Amarillo KAEZ 105.7, no commercials and
 "very weak."
 TX Floresville KWCB *89.7
 VA Narrows WZFM 101.3
 Monophonic
 CA Fallbrook KBAX, e, and Ventura KAXX

107.1, e, both mono, as is KMAX Arcadia,
 getting the KMAX signal via 7.5-kHz phone
 lines. "The FCC does not care whether a
 station actually sends out a high fidelity
 signal—only that it is capable of it, and
 besides it has done away with the annual
 proof-of-performance tests for stations."
 IN Sullivan WNDI-FM 95.3. "Has been known to
 simulcast Terre Haute NWS for up to 10
 minutes. Has an erratic schedule."
 IA Des Moines KDPS *88.1, KUCB *89.3
 IA West Des Moines KWDM *88.9

Format Changes

Formats are the same as in the "FM Atlas"
 AL Enterprise WDJR 96.9 k
 AL Fairhope WZEW 92.1 rp
 AL Florence WFL 96.1 m, \$[tereo]
 AL Hartselle WYAM 106.1 r, "City FM"
 AL Union Springs WSFU 94.1 s
 AZ Phoenix KKLT 98.7 rm, "The Light One"
 AZ Prescott Valley KIH 106.7 r, "Kicks 106,"
 and "IDs their translators on the hour"
 AZ Tucson KUAZ *89.1 j, "Z-89," to simulcast
 KUAT AM [standards
 AR Bella Vista KBVA 106.5 m, adult/
 AR Glenwood KWXE 104.5 k, \$, "Quixie,"
 parallel to KWXI 670
 AR Texarkana KTDN-FM 107.1 r, "Star 107, All
 Hit Radio" (from "107 K-Twin")
 CA La Quinta KBZT 96.7 k, Unistar Country
 CA Sacramento KQPT 100.5 p
 FL Chiefland WLOH-FM 97.3 k
 FL Coral Gables WHQT 105.1 r
 FL La Belle WKZY 92.5 Spanish, I
 FL Naples WBPT *89.5 r, simulcast with WJYO
 Fort Myers, "dunno if stereo"
 FL Pensacola WMEZ 94.1 rm, WJLQ 100.7 rm
 FL Port Charlotte WEEJ 100.1 r, "progressive
 MOR," but "I'd just call it r"
 GA Rome WKXC 97.7 r, not rm
 IN Austin WJAA 96.3 rp, "Radio 96.3"
 IN Nappanee WJAX 95.7 mr, \$, ID with Goshen
 and Elkhart (not with Warsaw any more); "is
 taking a bite out of WEFM 95.9 [Michigan
 City's] coverage area"
 IN Washington WAMW-FM 107.9 mr
 IA Des Moines KLYF 100.3 rm, Format 41 nites
 IA Iowa City KKRQ 100.7 o, "Oldies 100.7"
 IA Jefferson KLSN 98.9 m
 IA Pella KFMC 103.3 pj, "a combination of
 rock, jazz and blues"
 KY Burnside WJDJ 93.9 o, LMA with WSEK
 97.1 Somerset (not "off air")
 KY Louisville WKZS 103.9 k, LMA with
 WDJX-FM 99.7 and AM
 KY Williamstown WNK 106.5 k
 LA Bunkie KEZP 104.3 mr, "EZ-104," ID with
 Alexandria [el to WADU 830 Norco
 LA Reserve-Laplace WADU-FM 94.9 b, paral-/
 ME Caribou WCXU 97.7 rm
 ME Lewiston WTH 107.5 o, "Oldies 107.5,"
 losing "Thunder"
 ME Thomaston WAVX 106.9 to be c, 24 hours, in
 April, replacing the format WCM 103.3
 Rockland had [Power 107"
 MD Federalburg WQMR 107.1 r, still/
 MA Pittsfield WTB 99.7 te, back on air with
 talk most weekday hours, ethnic weekends. A
 new amplifier has brought it back to legal
 power (it was running on just its exciter). A
 financial commitment from the school board
 and the Lichtenstein Foundation, as well as
 underwriting efforts, will help to assure its
 financial success. No longer just a "disc
 jockey station."
 MI Mount Clemens WXCD 102.7 p, "Z-Rock"
 MI Munising WHCH 98.3 k
 MN Ortonville KCGN 101.5 g, not gr
 MS Oxford WOXD 95.5 o
 MO Canton KBXB 102.3 o, still "B-102"
 MO Lexington KCFM 107.3 r, LMA with KXXR
 106.5 Liberty-KFKF 94.1 Kansas City KS.

No call letters changes for 106.5 and 107.5
 yet. "KXXR already had an LMA with
 station KIDZ 1510 kHz, which has been
 dropped. KIDZ is now off the air. On a good
 tuner there's little degradation, but middtown
 and south Kansas City are blanketed with
 RF—on an overload-prone tuner, KCFM can't
 cut through the intermod."

NH Conway WMWV 93.5 rm, not "off the air"
 NJ Long Branch WZVU 107.1 o, "Seaview 107"
 NJ Trenton WPST 97.5 rs
 NY Cape Vincent WKG 102.7 rm, parallel to
 WTOJ 103.1 Carthage NY, "Lite Rock 103,"
 ID with Kingston ON; is it \$[tereo]?
 NY New York WHCR *90.3 js and "variety,"
 mono [102.5, "no multi-city ID
 NC Hendersonville WMY 102.5 rm, "My/
 NC Sanford WFJA 105.5 o
 ND Minot KIZZ 93.7 rm, not "off the air"
 KBQQ 99.9 r, Unis. Adult Rock
 OH Ada WOMB *94.9 jr, \$, "Rock 95"
 OH Clyde WNCG 100.9 o
 OK Clinton KCL 95.5 (but still on 95.3) k
 KSWR 106.9 k, "Star 107 FM"
 OK Enid KOFM 103.1 r, top 40 (from b)
 OK Lindsay KBLP 105.1 k
 OK McAlester KMCO 101.3 k
 OR Grants Pass KYJC-FM 96.9 k, "K-97"
 PA Telford WBMR *91.7 g (from c). "A
 translator on 107.9 in Philly? Wouldn't that
 interfere with WHHS 107.9 Havertown PA? I
 haven't heard WHHS in a while, but I believe
 they were switched from 89.3 to 107.9
 recently."

PA Tunkhannock WYMK 107.7 rp, Unistar Niche
 29 [Classy FM")
 SC Marion WKSX 100.5 k, "Kix" (from/
 SC Scranton WSN 102.9 rm
 TN Dickson WQZQ-FM 102.5 b, JSA Easy
 Listening, "Super Audio" (strict). "I have yet
 to hear a legal ID, even on the hour." Ends
 simulcast with WY 102.9 Shelbyville.
 TX Clarksville KCBZ 98.5 o, "Oldies 98.5"
 TX Tulsa KJMX 104.9 rm, "Mix 104.9"
 VA Arlington WAVA 105.1 g, "following owner-
 ship transfer from Emmis to Salem."
 VA Berryville WAPP 105.5 o, parallel to WBPP
 104.9 Strasburg
 WA Camas KMUZ 94.7 m, to team with
 now-silent KKG 1230 Gresham OR.
 WI Minocqua WMQA-FM 95.9 mr

On Air (Selected)

AZ Flagstaff K276CF: "Heard into the fringes of
 Kingman, many, many miles away!" [k, \$
 FL Summerland Key WPIK 102.9, back on with/
 IL Morris WCFL 104.7, with the FCC
 modifying its directional antenna permit
 IN Loogootee WKMD 94.3, but "does not ID. In
 fact, it doesn't usually have announcers.
 DXers beware! Their format varies as to
 what's loaded in the CD changer. . . No ads
 either."
 LA Kentwood WXL 104.1 (having moved from
 McComb MS) 94.1 is "applying for a
 transmitter location near Clinton LA, NE of
 Baton Rouge. BR will be saturated."
 NY Middletown WOSR *91.7, \$, "WAMC
 Network," with only a top-of-hour ID with
 WAMC's other stations
 NY New York city area—"WNCR" 91.9, \$,
 "Nassau County Radio," (516) 285-0856;
 "WFUN" 95.1 Brooklyn area, (718) 232-
 3186. Both pirates.
 PA Easton WJRH *90.5, following school break,
 but still not on 104.9
 TN Nashville W271AB 102.1, "strong signal"

Off Air, or Not Yet On

AZ Sedona KSED 107.5. "They lost rights to
 their antenna site"
 AZ Wilcox KWXC 98.3 and its AM
 AR Barling KOLX 94.5

AR England KLRA-FM 96.5
 AR Gurdon KGAP 92.7 "still off the air"
 AR Stamps KZHE 100.5, still on 100.9
 CA Grover City KWCD 107.3, "CD-107"
 FL Greta WGD 93.3, still on 100.7
 FL Panama City WPFM 107.9 "temporarily"
 FL Tallahassee W249BA 97.7
 GA Harlem WHEY 95.1
 GA Martinez WMTZ 93.9, still on 94.3
 GA McDonough WMVV *90.7. "The one-bay antenna is still downtown. The church that owns it wants to move everything to a site north—increased power, etc."
 ID Mountain Home KLVJ-FM 99.1 and its AM
 IA Lamoni KLL 97.7 OK Salisaw KKID-FM 95.9 and its AM
 PA Mount Carmel WXXM 99.7. "Their lease agreement with WISL 1480 Shamokin PA fell apart, as did their previous LMA with WHTO 103.9 Muncy PA."
 PA Salidasburg WKHL-FM 95.5, still off
 PA Scranton WUSR *99.5
 SC Marion WWPB 94.3
 SC Moncks Corner WJYQ 105.5
 TN Nashville WFSK *88.1 "still off. Suspect this is permanent."
 W234AB 94.7—"just WGSQ 94.7 Cookeville, which has a pretty good signal here and is going to give this translator a run for its money."
 TX Bandera KHLC 98.3
 TX Borger KDXR 104.3
 TX Canadian KRBG 94.9
 TX Claude KARX 95.7
 TX Hereford KMAZ 103.5
 TX Lubbock KEJS 106.5
 UT Kanab KCKK 101.1

Deletions

MO Macon KZOX 99.9, unbuilt CP
 NV Jean K232CP 94.3
 OH North Canton W220AD *91.9; WFRJ said "they never used it"
 OR McMinnville K224BW *92.7
 PA Reading WBYN-1 107.5

SCS Changes, 67, 92, 78.67 kHz

Symbols are as in the "FM Atlas"

DC Washington WJZE 100.3 †E, 67 (from †R)
 OH Akron WZIP *88.1 †T, 67, moved from WKST *89.7 [67; had †X]
 OH Canton WTOF 98.1 no SCS (carrier only, /)
 OH Cleveland WCPN *90.3 no SCS (had †T, 67)
 OH Kent WKSU *89.7 no SCS (had †T, 67)
 OH Salem WQXX 105.1 no SCS (carrier only, 67; had †M) [†M; retains †X, 92]
 OH Youngstown WKBN-FM 98.9 no 67 (had /)
 Secondary Audio Program underutilized on TV.
 MacNeil/Lehrer Newshour has a Spanish translation, plus there is some foreign language use of it on commercial TV in Los Angeles.
 The Music 4 system, said to be "a failure. The equipment was too expensive, lacked portability, and the sound was not that great."
 Only in Los Angeles and Atlanta has it been used, and Atlanta is believed to be the only market where it is currently employed.
 "The 1992 FM Atlas is great—another job well done!" "The FM Atlas certainly is up-to-date. Thanks again for modifying the radio and send Catalog No. 12 when it comes out."
 "Just wanted to thank you for the great radio (Gran Prix) with mods. It's nice not to have to listen to commercials any more!"

F Mistakes FM Atlas-14

FL Jacksonville p. 140 calls for the booster are WOKV-FM1 (not WIOI-FM1)
 FL Tallahassee *91.5 is WFSQ (not WFSU), p. 30
 GA West Point is shown as being in AL, p. 33 map
 IA Iowa City KRNA map p. 48 should show its frequency as 94.1
 KS Ogden KOLA 103.5 (moving from 103.9);

list on p. 181 (103.5) as 50000 h.v; 93 m
 MA Waltham WCRB 102.5 SCS data covers up coverage (52 km), p. 115
 OR Corvallis KEJO 101.5 data misaligned, p. 176

See Also March VUD For

AL Fairhope WZEW 92.1 rp, Falconer, p. 31
 CA Julian KBNN 100.1 "Kabin 100.1 FM," ID with Ramona; is it \$[tereo]? Lobel, p. 25
 FL Coral Gables WHQT 105.1 r, "Station News," p. 31
 FL Holmes Beach WISP 98.7 "Wispy 98.7"; is it \$[tereo]? "Station News," p. 33
 FL Pensacola WMEZ 94.1 apparent format change to rm, Falconer, p. 31
 GA Gordon WNEH-FM 107.1 107-X, "Station News," p. 33
 IA Jefferson KLSN 98.9 m, not b, Hawk, p. 30
 KS Great Bend KZXL 107.9 Z-108 (from "XL-108"), Hawk, p. 30
 KS Ogden KOLA 103.9 (moving to 103.5); list on p. 181 FM Atlas-14, to be 50000 h.v, h.v; 93 m, Hawk, p. 30
 MN Cambridge WLOL now 105.3, having moved from 105.5, "Station News," p. 33
 MN Thief River Falls KSRQ *90.1 not "Thief River Falls," p. 12. Let's all strive for more accurate spellings in the VUD!
 MO Columbia KFMZ 98.3 ID with Jefferson City, Falconer, p. 31
 NY Auburn WPCX 106.9 Country 106.9 (from "Picks 106"), Shaftan, p. 33
 NY Cape Vincent WKGK 102.7 Lite Rock 103, ID with Kingston ON; is it \$[tereo]? "Station News," p. 31 [-94"), Hall, p. 34
 NY Dansville WACZ 93.9 Lite 94 (from "Z-")
 NY Jamestown WNJA *89.7 is not a translator, but a full power relay, Ross, p. 12
 OH Chillicothe WFCB 94.3 FCB-94 (from "B-94 FM"), Hall, p. 34 [p. 30
 OK Ketchum KGND 105.7 K-Grand, Hawk, /
 PA Telford WBMR *91.7 apparent format change to g from c, Oetting, p. 35
 NL Sabinas Hidalgo XHSAB 89.5 mono, assumed temporary, Hawk, p. 30
 Thanks, Greg Coniglio, "Column Notes," for the nice FM Atlas plug, p. 30, and to the club for the nice ad, Feb., inside back cover.

NonIDs In Use

Mentioned usually without call letters; "strict" if a station only uses call letters once per hour as required by the FCC (at or near top of hour)
 AR Ashdown KARQ 92.1 Q-92 All Hit Country (from "Country 92")
 AR Camden KCAC *89.5 KC-89; is it \$?
 KWEH 97.1 uses calls of KAMD 910 which it simulcasts (except at top of hour); was "FM-97") [try 105
 AR Crossett KAGH-FM 104.9 Super Coun- /
 AR El Dorado KBLT 95.9 Lite 96
 AR Hot Springs KBMB 96.7 KB-96
 AR Malvern KISI 101.5 Sunny 101.5
 AR Warren KWRF-FM 105.5 uses calls, not "Magic 105" ["Bright 99-5")
 DE Wilmington WJBR-FM 99.5 Mix 99-5 (from /
 FL Fort Lauderdale WAXY 105.9 Waxy 106 (back to, from "Mix 105.9")
 FL Homestead WDXD 95.7 Radio El Sol (from "Radio Ritmo," which goes to 98.3—see "Facilities Granted" above, ending LMA)
 FL Miami WQBA-FM 107.5 FM 107.5 (in Spanish; from "Super Cool")
 FL Sarasota WHPT 102.5 The Point
 GA Gordon WNEH-FM 107.1 107-X
 IL Macomb WJEQ 102.7 Rock 103, ID with Galesburg
 IL Marshall WMMC 105.9 Oldies 106 (from "Cool 106"), ID with Terre Haute (IN)—Charleston
 IN Elkhart WLTA 100.7 Lite FM
 IN La Porte WCOE 96.7 The Eagle. COE stands for Ken Coe, owner. "Their AM, WLOI, is

simulcasting the FM" temporarily
 IN Greenfield WZPL 99.5 ZPL
 IN Spencer WSKT 92.7 KT-93 (not "Hot Kickin' Country"), ID with Bloomington, but not with Ellettsville any more ["V-91")
 IN Vincennes WVUB *91.1 Easy 91 (from /
 IA Ames KEZT 104.1 Light 104
 IA Ankeny KMXD 106.3 Soft Mix 106.3
 IA Fairfield KIKK 95.9 Kick 96, ID with Ottumwa, "but their signal is bad in some areas [of Ottumwa] and they've quit doing promotions here" ["Country 92")
 IA Oelwein KOEL-FM 92.3 High Country (from /
 IA Oskaloosa KBOE-FM 104.9 Country Connection. "They're trying to be more regional."
 KY Henderson WKDQ 99.5 KDQ 99.5 (from "KQ-99") [ing "Fun Radio"
 LA Alexandria KQID 93.1 still 93-QID, not us- /
 LA Benton-Shreveport KLXL 92.1 Oldies 92.1 FM (from "Cool 92.1")
 LA Dubach-Ruston KPCH 97.7 The Peach
 LA Shreveport KWKH-FM 94.5 94 Country (from "Radio Ranch")
 MD Baltimore WBSB 104.3 Variety 104.3 (from "B-104"), but still r ("hot AC")
 MN Duluth WAVC 105.1 FM-105 (not strict)
 PA Olyphant WZZV 95.7 Z-95; is it \$?
 TX Amarillo KATP 101.9 Rock 102, The Cat
 TX Commerce KETR *88.9 The Mint
 UT Provo KZOL 96.1 X-96 (from "K-96.1")
 PQ Montreal CJFM 95.9 Mix 96 (from "FM 96")

Multi-City IDs in Use

AR Maumelle KOLL 94.9 still IDing as Pine Bluff-Little Rock [100.1 FM"
 CA Julian KBNN 100.1 with Ramona, "Kabin- /
 CT Norwalk WEFX 95.9 with Greenwich, "95-9 I he Fox" [Bethany MO
 IA Osceola KJJC 106.9 with Des Moines- /
 LA Bastrop KTRY-FM 94.3 with Monroe-West Monroe, "Touch 94.3"
 KRUV 100.1 with Monroe, "The River 100.1"

AM Happenings Most Likely Caused by FM (Selected)

AL Lexington WKNI 620 silent
 CA Fort Bragg KDAC 1230 silent
 CA Los Angeles KMPC 710, still owned by Gene Autrey, goes all sports by end of April, no MOR
 CA Santa Monica KBLA 1580 dumps business talk in favor of relay of monophonic KWIZ-FM 96.7 Santa Ana. "The business format lasted less than one year on KBLA."
 DC Washington WGMS (changing to WTEM) 570, dropping classical to be all sports (c only on WGS-FM); WMAL 630 loses Redskins. [FCC
 HI Kailua KLEI 1130 off air, calls deleted by /
 KY Inez WFJT 1590 off air, deleted by FCC
 ME Presque Isle WKZX 950 off air, FCC deletion
 MD Brunswick WTRI 1520 silent
 MD Leonardtown WKIK 1370 silent
 NJ Oakland WVNJ 1160 "still not on air!"
 NJ Washington WSRR 1580, silent for "several years, has now vacated the premises. The tower is still standing, but the equipment and studios are gone. Rumor is the station (i.e., tower and license) is for sale, asking \$75,000."

FM Rulemakings Proposed

First date is deadline for filing comments at the FCC; second date is for replies. Stations affected, if any, are listed.

AR Dumas 106.9C3 for 107.1A, KXFE, Apr. 6, 21
 AR Marianna 105.3A for 106.9A, with Dumas
 CA Fort Bragg 95.3B1 for A, KOZT, Apr. 10, 27
 CA Quincy 102.1A for C2, KQNC, with Shingle Springs [FM, Apr. 3, 20
 CA Shingle Springs 101.9B for B1, KFIA- /
 HI Poipu 95.9A, Mar. 30, Apr. 14 [21
 KY London 92.3C3 for 92.5A, WYGE, Apr. 6, /
 KY Hazard 92.5A for 104.7A, WJMD, with London [with London
 KY Hyden 104.7A for 92.3A, WZQQ, 73, 92

SATELLITE NEWS



George W. Jensen
4604 Anntana Avenue
Baltimore, MD 21206-4220

Another 30 days has passed and time for another run down of what's changed or not in the satellite world. What's interesting (or not so interesting) is that there is a lot of petty movement of services - nothing of major consequences at this time. But that may soon change.

Video Shopping Channel VCC is on Spacenet 3 XPDR 16
MSG Network was noted recently on F4 XPDR 15
Probably a one-shot affair - Sky Television from England was noted in PAL color on Galaxy 2 XPDR 14 with what appeared to be a stock-holders type of meeting program

The Arab American Network is on F2 XPDR 1 with varied Arabic Programming - some locally produced - others from Arabic Nations.

Sat. Market USA noted on W5 XPDR 15.

On C5 XPDR 18 some weak video and sound noted, but what it was couldn't be identified. This is very unusual in that I believe the even transponders are not CONUS but Alaska beamed and, at this location, shouldn't be visible at all.

CNBC on F3 XPDR 6 is now VC2 encoded
CMT (Country Music Television) on G1 XPDR 13 is now VC2
Also on G1 XPDR 6 is the most varied array of services I've seen in a long time. Everybody has been using this from ESPN/Disney/Shop-At-Home/USA etc. for various promotional programming to whatever.

Morelos 1 - I've noted flickers of video on XPDR's 21 and 23 and someone in MAC coding on 15.
On Morelos 1 - a flicker on 19

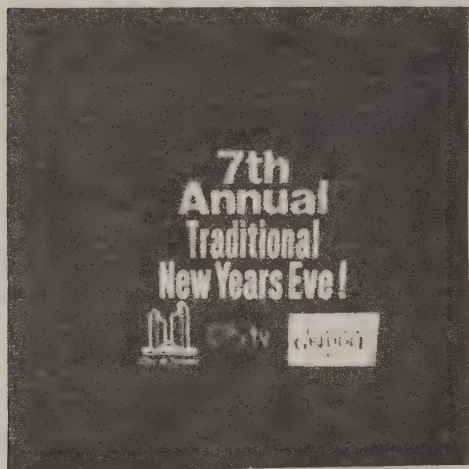
New on Intelsat 53W - LS85 - Ch 13 - Buenos Aires, Argentina on XPDR 14H - TV Rio de la Plata - sometimes in the clear - others in MAC. This is a powerhouse signal - as if the beam was into my back yard. It causes signal degeneration of the BBC/ITV London feed on 14 V

If Galaxy 5 was successfully launched - look for major changes in the very near future.

That's all for now - hope to see you in 30.
'73's

George

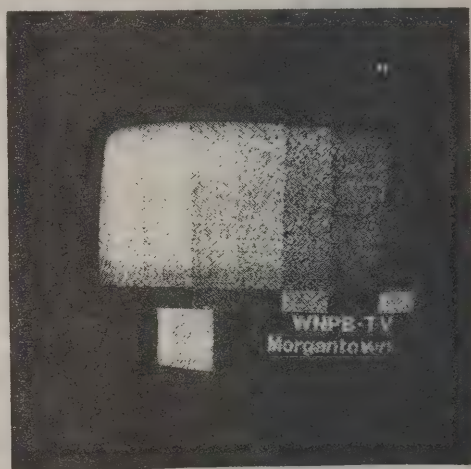
William Eckberg - Dixon Illinois starts off this months installment of Photo-News. Equipment: 1966 Zenith b&w tube type receiver model ch 14N22, modified Zenith 175-2225 detent tuner. Rohn tower - Channel Master 1110 at 41'. Rohn crankup tower - Channel Master 7 foot dish with RDX Labs UA900 (round) preamp at 52' and 125' of Jerrold CAC-11 coax.



CITY2-31

Woodstock, Ontario

442 mile tropo
 seen December 31 1991
 at 0220 CST



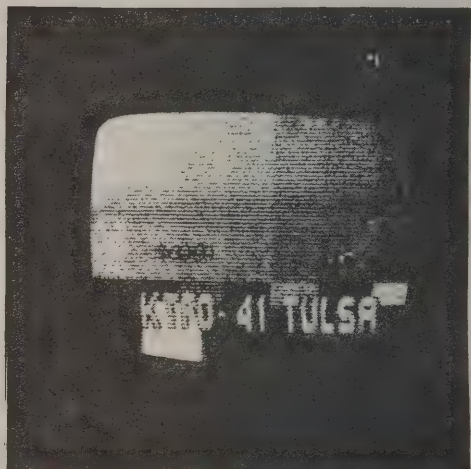
WNPB-24

Morgantown
 West Virginia
 508 mile tropo
 seen December 31 1991
 at 0455 CST



KTWU-11

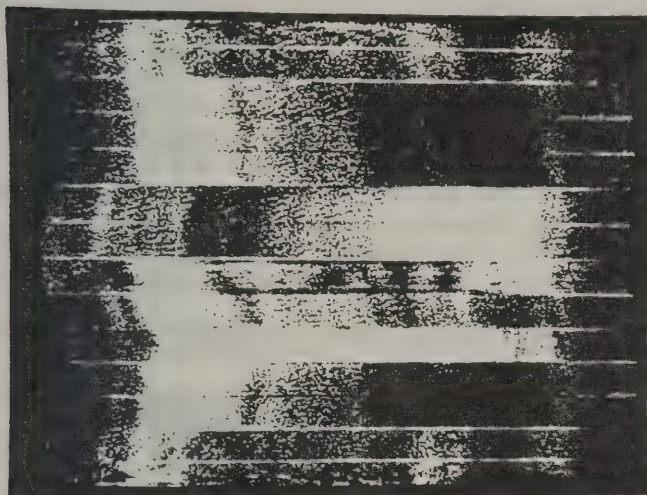
Topeka Kansas
 375 mile tropo
 seen January 4 1992
 at sign off
 "rare"



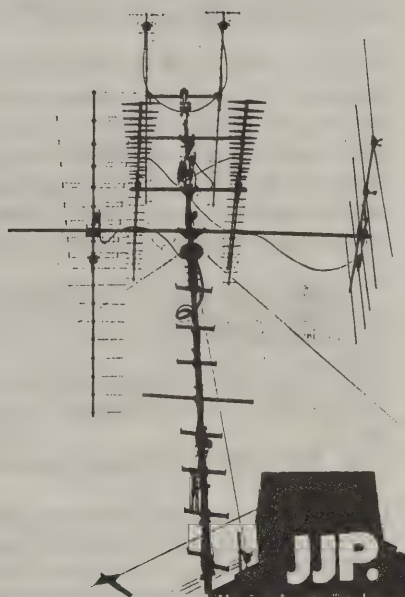
KTFO-41

Tulsa Oklahoma
 519 mile tropo
 seen January 4 1992
 at 0450 CST
 "new call"

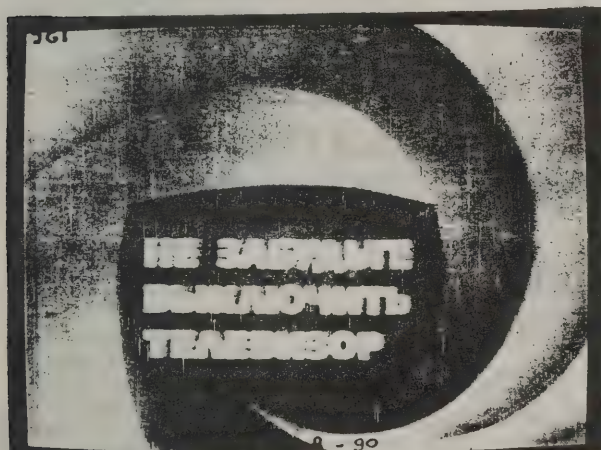
Next is Joop J. Prosée -- Spanbroek Holland.



"The Iranian FuBK Testcard via F2 on Ch1.E2. Without clock(?), ERP power unknown. Offset BP = +10.4kHz. Distance estimated 4600km"



"my highest DX-mast with a tophight of 15m (50 feet) with on top two stacked Yagi's for Chls E55-E70. Going downwards, two stacked TelweA/PHILIPS TV21 65/40MULTIWING UHF-antennae for Chls E21-E65. Normally I use four stacked MULTIWINGS but two are to be overhauled. Below left, TELECASTER 30818 Band-3 antenna for Chls. E5-E12(174-230Mhz) this is a LogPerYagi with 8 T-Match dipoles 1 Yagi reflector and 9 Yagi directors. Below right, vertical mounted LogPerYagi for 47-100Mhz with 4LogPer dipoles and one Yagi director."

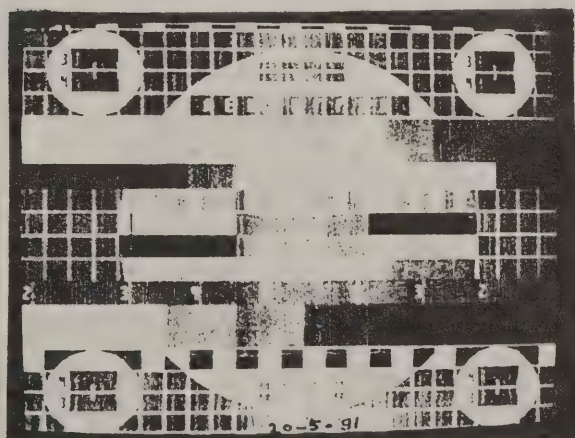


"Russian S/off slide, received via Es on Ch1. R1. The slide reads in Russian: "Don't forget to switch off your TV set."

From your editor; remember to include ALL information about the photos you send in. This should include: station call or name, the city of license, province or state; country if not Canada or United States. Distance in miles or kilometers but state which one you used. Mode of propagation. Date of photo (reception) and if you wish the time and zone used. This will help us all understand and enjoy the photos you've taken the time to send in.

More from Bill & Joop next time,

DAVE



"Russian UEIT testcard via Es TX Leningrad (now St. Petersburg). ID **ЛЕНИНГРАД** in top. 240kw ERP, offset Zero, distance 1710km."

NORTHERN FM-DX

GREG CONIGLIO
5100 GLENWOOD DRIVE
WILLIAMSVILLE, NY 14221

For DXers in: MA, NH, VT, CT, MA, RI, NY, PA, NJ, OH, MI, IN, IL, WI, MN, IA, NE, SD, ND, MT, WY, ID, WA, OR, AK, Canada

OCTOBER 1991 DEADLINE: The 5th LOG CUTOFF: 2 months from when mailed

Keep an eye out for e-skip soon! Do not write off the chance of skip in April; it can and has happend. The best April opening of the past 10 years occurred on April 27, 1987. 5 DXers reported 45 different loggings to the VUD on that day. Other openings occurred on April 25, 1986, April 30 & 7 in 1984, April 28, 1987, and April 21, 1982. The past few years have seen very little April Es activity, so maybe we are overdue! More reported on the big December 28 opening in the Northeast, plus there were some good openings the last week of January and the first week of February. No off season e-skip has been reported this month, so things have quieted down in that regard. Let's here from you!!...

ROGER WINSBOR - 706 LONG RUN - VALPARAISO, INDIANA 46383 (219) 759-3131

DECEMBER 1991 DX CST

21 Tr

1958 WLRX 95.7 IN Nappanee, local basketball and spot.

2015 WPBK 97.5 MI Whitehall, k, claiming #1 Muskegon Country

23 GW

2358 WXAV 88.3 IL Chicago, sign off after blues program

WISOT
220 South Russell Avenue
Williamsport, PA 17701

I guess a re-intro is in order since it has been many years since I have last reported to WTFDA (Welcome back Roger. Hope to see you report again!-gc). I got my first start back in the early days of WTFDA with Morrie, Pete, and John Zondlo. HQ was in Milwaukee then. I used to DX with a Kenwood tuner which was destroyed in our house fire in 1986. I am 51, married with 4 grown girls and a 5 year old son which takes up much of my time when I am home. I work 14 hour days so have little free time, especially DX takes a back seat. But I still do pick up new things as I browse the dial. I use a GE Superadio with the 110 filter which Bill N. altered for me this summer in Dunkirk. A tremendous difference!!! I use a dipole hand held or standing up, a remarkable little stick. Totals at 1042 with 36 states, 3 provinces and 1 Mexican. The 88.3 logging was made possible only because WDSO in Chesterson has some sort of weak dead carrier that ruins 88.3. When WDSO is off the air for the summer or Christmas break it disappears. I never have called them up to complain. I completely missed the 12/28 ducting. If conditions are up I would appreciate a call if on weekends. None collect please. Good DX, Roger

WILLIAM R. HEPBURN - 35 LOCKWOOD RD - BRAMPTON ON L6Y 4T7 (EST)

Equipment: modified JVC R-X330U w/indoor dipoles

DECEMBER 1991

28 TR

1846 CBON21 104.9 ON Gogama 295
(FF, 15 db)

29 TR

0105 CBON17 95.1 ON North Bay 185
(FF // CBON21, 10 db)

0108 CKLP 103.3 ON Parry Sound T
(Music Radio, 10 db)

0109 CJRQ 92.7 ON Sudbury T
(Rock Radio Network, 10 db)

JANUARY 1992

29 TR

2359 WIYQ 99.1 PA Ebensburg- 225
Johnstown-Altoona

FEBRUARY 1992

6 TR

0000 WDBA 107.3 PA Du Bois 175

0202 WLMi 103.9 PA Kane-Warren- 160
(u/CBBP) Bradford

0322 CKAT 101.9 ON North Bay (k) T

6 GW

0346 <WRQI> 95.1 NY S Bristol-Roch 133
(ex-WSZH, 'Rocket-95', 15 db)

joy 96 fm wjye

1700 Rand Bldg., Buffalo, NY 14203 (716) 856-3550

STATION NEWS: KPYR 98.1 AR has changed city of license to Millington, TN, and subsequently changes calls to WPYR. They want to move closer to Memphis I guess. WDXZ 104.5 Mt. Pleasant-Chadeston, SC is back on the air, with a hot a/c format and "Mix 104.5" slogan. In Seattle KUBE 93.3 stays top 40 but goes more to a dance approach. In Wyoming KKAZ 100.7 has gone silent, same fate for KWIC 107.9 Beaumont, Texas. In Florida, WSTF 101.1 Cocoa Beach is now WVRI, and "Variety 101.1" same a/c format though. In Lincoln, Neb. KFGE 105.3 is on the air, with Unistar country, and a "Froggy 105.3" slogan. Thanks Mike Hawk. WZRH 106.1 Picayune-New Orleans is moving more to a mainstream album rock format. In Houston, KRBE 104.1 adds a modern rock show evenings. WSFU in Montgomery is reportedly on the air with a "Power 94" slogan. WZIO 94.9 South Boston, Ohio is on the air with country, "Z94", WRRL in Rainelle, West Virginia moved to 95.3, and is mono.

DAVE NIEMAN-12284 NICE RD-AKRON NY 14001-9529

Equipment: Carver TX-11 tuna IF filter medicated, Channel Master Stereo Probe 9 at 26' 13.1875629" above ground level. Alliance HD-73 router and RG-11 coax. New loggings are undermined. New propagation mood uuuu. New call [KKKK].

JANUARY 1992 DX

1 Groundwave & troposcatter

(from Buffalo)

0900 WBEN 102.5 NY Buffalo, ID, m mono 20
 0921 WUOL 104.1 NY Buffalo, call k mono 4
 1000 WBNY 92.9 NY Buffalo, ID, m mono 16
 1017 WJTN 93.3 NY Jamestown, call, m mono 65
 1059 WINE 103.3 NY Buffalo, ID/1080 AM, r mono 14

3 tropo & Groundwave

0759 WUJ 97.1 MI Detroit, call, m mono 230
 0901 CFRB 99.9 ON Toronto, call, m mono 70
 1000 WRRR 107.7 NY Wethersfield, ID/WRRR, WRRD, WRRR, WRRR & WQXR, c mono 37
 1200 CBL 99.1 ON Toronto, ID, c mono 70
 1401 CHFI 98.1 ON Toronto, ID, mc mono 70
 1437 CKLB 93.9 ON Oshawa, call//1350AM, m 71
 2200 WHDL 95.7 NY Allegheny, s/off, c mono 65
 2201 WERC 99.9 PA Erie, call, m mono 90

8 tropo

0800 WXYZ 101.1 MI Detroit, ID//1270AM, r mono 230

DECEMBER 1991 DX

31 tropo

0832 WPHN 90.5 MI Gaylord, ID, g\$ 337

JANUARY 1992 DX

18 troposcatter

1520 WRVL 88.3 VA Lynchburg, call, g\$ 386

23 troposcatter

1447 WIZN 106.7 VT Vergennes, call+ "THE WIZARD", op\$ 277

28 Meteor & tropo scatter

0854 WXXL 106.7 FL Leesburg, "XL-106.7" ex-WHLY, prev. E-skip 995

0901 WRQX 107.3 DC Washington, "MIX-107.3" 292

FEBRUARY 1992 DX

16 Meteorscatter

1025 WIAI 99.1 IL Danville, call female voice "...WIAI..." 509

17 troposcatter

0814 WHKO 99.1 OH Dayton, call, k\$ 371

I sent for and received the distance printout from Fred Nordquist (see Feb. 1992 VUD NFMDX column middle of page 26). I got one for Akron and Rock City DX locations. It will make looking up stations distances much easier. Fred didn't ask for but I sent along a S.A.S.E. and the \$2.00 each with my order. Seen a drawing of a simple antenna phase box designed by ETVDX editor Bill Nienajadly. I have to give it a try. Dave

(Dave, I guess these are in violation of the log cutoff policy, hi. GC)

MICHAEL HAWK (NOOSY) - 10212 P ST - OMAHA, NE 68127-2130 (402)592-1186

Equipment: Kenwood KT-815; Archer 6 element before 2/8, Antennacraft FM-10 after 2/15.

FEBRUARY 1992 DX

4 GW(CST)

2000 KFGE 105.3 NE Lincoln, \$, k format, 'Lincoln's Froggy 105.3', or 'Hot Country'.
 2200 KKBZ 106.1 IA Shenandoah, NEW CL's, ex KMA-FM; CNN news, Oldies format, 'The New B-106'.

20 GW

2000 KXXR 106.5 MO Liberty, now k; ID as 'The New CJ 106.5'; preobably will change call letters

4 Tr

2202 KYSM 103.5 MN Mankato
 2206 KEEY 102.1 MN St Paul, \$, K-102
 2230 KWOA 95.1 MN Worthington
 2300 KNSR 88.9 MN Collegville, APR
 2315 KTCZ 97.1 MN Minneapolis, AOR

5 Tr

1221 WJOD 107.5 IL Galena, k
 1223 KRDI 100.5 IA Decorah, \$, AC/AOR
 1227 KFMH 99.7 IA Muscatine, \$
 1230 WCOW 97.1 WI Sparta, \$, WI#2
 2123 WZOK 97.5 IL Rockford, 97-ZOK

The 2/5 tropo was nice to come home to. I'm sure it was much better earlier in the morning, but we had school. I would have missed it all together if we hadn't gotten out at noon. The KFGE intro was interesting. They had been testing for a few weeks occasionally in the afternoon with a unistar satellite feed. Early February they began testing 24 hours a day with a recording of outdoor noises (crickets, frogs, birds, etc.), then switched to regular broadcasts of country music a few days later. I also ID'ed an unID station from the 1/6 E-Skip. XHMG-102.9 from Monterrey increased my total from that opening to 14, with 8 Mexican's, 5 from Monterrey. Reading about Bill Nienajadly's phasing system gave me an idea. Why not try coupling an outdoor beam with one of those indoor antennas with the tuning knobs, like the kind they sell at Radio Shack. That would have the capacitor built in already, and be a lot less hassle. I may try experimenting with this down the road, but renewing my VUD subscription comes first! Also, if there are any hams out there that want to set up a schedule with me on 10, 15, or 40 meters, drop me a line. I just upgraded my license to advanced. I finally got the FM-10 up on 2/16. It has a definite edge over the 6 element I was using. I have noticed strange tones on various frequencies across the band. I know that it's nothing in our house. It's just like a carrier on 106.6, 102.15, and 102.95. It is strong enough to block most DX on the frequencies near to them. Anyone who has had anything similar happen, I'd appreciate a letter. By the time you read this, the skip season will be right around the corner! 73's

JEFF FALCONER - BOX 63 - CLINTON, ONTARIO CANADA N0M 1L0

Equipment: Magnum Dynalab FT-101A, Probe 9 at 27 feet with rotor, RG11 feedline, Mag. 205 amp.

DECEMBER 1991 DX

28 Tr-super opening, first time I have ever seen a

duct to the north!

1916 WIKB 99.1 MI Iron River, k\$, ID 366

2050 CBON28 91.9 ON Chapleau, CBC

French Mono 308

2054 CBON24 90.7 ON Kapuskasing, same 402

2058 CBLJ 88.3 ON Wawa, CBC EE mono 343

2100 CBEB 89.7 ON Maniyouwadge, CBC

English Mono 435

2102 CBON27 90.7 ON Wawa, CBC FF

Mono, strange echo effect with antenna

between this and CBON24 343

2111 CBLG 89.1 ON Geraldton, CBC EE mno 491

2112 CBON22 93.7 ON Gerladton

CBC French mono 491

2120 CBON20 89.3 ON Thunder Bay, same 499

2125 CBON25 97.1 ON Timmins, same 336

2131 CBON19 97.3 ON Nipigon, same 493

2141 CBON5 101.7 ON Elliot Lake, CBC FF

Mono, over local CKNX, same direction!! 204

2245 WKLA 106.3 MI Ludington, rm\$ 251

29 Tr - dying out

0048 {WCKC} 107.1 MI Cadillac, k\$, ex WYTW 196

0118 CJJQ 92.1 ON Timmins, r\$, Q-92 336

0144 CHAS 100.5 ON Sault Ste Marie,

ID\$, weather report. 250

JANUARY 1992

3 MS

0256 CBAL 98.3 NB Moncton, likely the one

with CBC French mono network 831

0308 CKSB7 93.5 ON Kenora, same 748

0433 WCQS 97.5 SC Columbia, calls 656

0713 WPLR t 99.1 CT New Haven, "...of New

Haven was stabbed" would have been new state

0720 WHFS t 99.1 MD Annapolis, "in Prince

Georges County" This would have been a

new state too, sigh.

7 TrS

1240 WSDP 88.1 MI Plymouth, rp\$, ID rare

here since CBEE came on 120

20 MS

0401 WQIK 99.1 FL Jacksonville, "FM 99

WQIK, specializing in today's hottest k" 919

21 GW

0144 WJXC 97.3 MI Essexville, k\$, uses

Wixie or Country 97 non IDs, new stn 116

FEBRUARY 1992

14 MS

0026 KMAG 99.1 AR Fort Smith, "99.1,

thanks for making us Fort Smiths...." 882

MARCH 1992

1 TrS

1700 {WNCG} 100.9 OH Clyde, r\$, ex WLCO 175

That's it for now. December was a great month for DX, with Es, MS, Tr, and even a little Au thrown in. Too bad the same can't be said for 1992 thus far. 73,

dBRUCE HALL - 5 STIRTON AVE. - BRANTFORD, ONTARIO CANADA N3T 1E3

Equipment: JVC JR-S201 receiver modified with 3 150 khz filters, Magnub Dynalab 205 Signal slueth, Probe 9 fed with RG6 at 50' AGL, Crown Rotor. Phase: Delhi TV antenna at 40', in line attenuator. Thru 2 way splitter hooked in reverse to tuner, same rotor. (distances are in kilometres)

FEBRUARY 1992 DX

3 TrS

- 0736 WKJC 104.7 MI Tawas City, k, FM 104

after Chemical bank ad, KJC weather 295

4 TrS

0802 WCLG 100.1 WV Morgantown, r, CLG-FM

"WCLG-FM Morgantown, the home of —" 391

7 MS, TrS, & GW

0806 WNLT 95.7 FL Clearwater, r, lite rock 1702

0827 WCLR 95.7 OH Piqua, b, "Clear 95.7 WCLR

with Chicago "Right before my very eyes" 483

1629 {CKRZ} 100.3 ON Ohsweken, multiple format

"more music on 100.3 CKRZ Grand River Country"

ex CFNC, licensed to go to 250 watts, but were

still using 50 watts when I called them, mono 25

8 TrS

0858 WLIF 101.9 MD Baltimore, mr, Lite 102

after Holly Farms ad, Vicky Cox rx update 529

9 TrS & MS

0649 WLEN 103.9 MI Adrian, legal ID, k 345

0700 WWIZ 103.9 PA Mercer, Sharon, YTown

k, I104 jingle, Mutual News 230

0814 WOKO 97.5 NH Dover, "Area cal 463-9750

from the SeaCoast, Portsmouth, and Exeter" 726

0817 WCIZ 97.5 NY Watertown, CIZ, "The

rock and roll authority, CIZ FM", Bob Seger 334

11 TrS

0646 WJIM 97.5 MI E.Lansing b, EZ 97.5, TC 355

0654 WQBE 97.5 WV Charleston, k, Q97, ad 541

0701 WONE 97.5 OH Akron, "The home of rock

rock and roll 97.5 WONE FM" 258

0803 WPST 97.5 NJ Trenton, r, calls 529

12 TrS

0749 WQRT 98.3 NY Salamanca, k, "98.3 WQRT

the home of real country music" 185

14 TrS

0722 WRKU 95.1 PA Grove City, op, 95 K-Rock

"Super Dave and Tina" morning show 437

0757 {WRQI} 95.1 NY S.Bristol, r, Rock It 95

and legal ID, new calls, ex WZSH, Wish 95 231

15 TrS

0759 {WKMF} 101.7 MI Tuskola, k, KMF, new

calls and format, ex WGMZ. 262

17 TrS

0729 WDKX 103.9 NY Rochester, s, "Best variety

on Rochester's early morning show" 192

20 TrS

0730 WSRD 104.9 NY Johnstown, o, calls

"Zippo in the morning" 437

22 TrS

0813 WSVS 104.7 VA Crewe, k, "music that makes

the difference, sunday morning gospel", calls 690

73.db

Report to the VUD!!

NORTHERN FM DX**APRIL 1992**

RICHARD SHAFTAN - 39 OLD MIDDLETOWN RD - ROCKAWAY, NJ 07866 (201) 586-3563

BEEPER FOR DX: (201) 955-4256

Equipment: Realistic STA-2280 W/3 110 KHZ filters, channel master 20 element TV 45' AGL. Phased with two Radio Shack FM Outdoor antennas stacked 7 feet apart 30' AGL thru 3 variable attenuators, a phase tilter and a Radio Shack "Variable Interference Eliminator". Both antennas are run through Radio Shack mast mounted amps. (In car: Kenwood KRC-430 w/2 110 khz filters)

FEBRUARY 1992 DX**4 TrS**

1751 98.9/100.5 Rochester in strong in Ogdensburg
Sussex Co., ten miles north and west.

8 GW & TrS

2030 WOSR 91.7 NY Middletown, Irish mx with
WAMC ID at the top of the hour. Strong but not
so strong as to obliterate the channel.

2300 WXLV 90.3 PA Schnecksville, Cl., ID

12 TrS

2130 WSSH t 99.7 PA Pittsburgh, "Wish Delight
the new 99.7 FM"

19 TrS

2148 WKFM 104.7 NY Fulton, car in Fairfield, NJ

20 TrS

2146 WENU 101.7 NY Hudson Falls, car in Montville

21 TrS & GW

1506 WDBA 107.3 PA DuBois, car in Parsippany, NJ

2200 WEDW 88.5 CT Fairfield, on air, apparently
non-directional

2300 WSKG 89.3 NY Binghamton, ID thru WLJP

2343 WYOS 95.9 NY Liberty, ID thru WADB, both
of these logged via phasing

2359 W??? 99.7 NY Middletown? beam north,
oldies and 1950s car ads. Sounded like a pirate
but could be this testing. Heavy metal next nite

22 TrS

2022 UNID 105.7 "Hot Mix 105.7" (Rich, was the
beam north? WHMX in Lincoln, Maine uses that!-gc)

MAJIC 95.1km WAJI**REQUEST LINE NO: 219-467-9500**

Number one DX concern is new proposed Mahahawkin NJ station on 105.7 which will
probably kill the channel.

JANUARY 23 MS

0033 WODJ 107.3 MI Greenville, "...WODJ.."

24 GW

2327 W244AS 96.7 NJ Oakhurst, now with WOBM

26 TrS

0005 WNPR 89.1 CT Norwich, strong w/WFDU,
WNYU, and WWFM off the air

0014 WMHT 89.1 NY Schenectady, classical, NPR

0058 WCID 89.1 NY Friendship, religious
program

In next night as well. WNYU and WFDU have been
off the air for several days (still as of 2/28)

27 TrS

1650 WLJP 89.3 NY Monroe, off the air for several
days w/dominants WPFW Washington, DC, WSKG in
Binghamton, NY; WCNJ Hazlet, NJ; WRDV Westmistr
NJ as regulars, slight trace W207AK Bethlehem, PA

29 TrS

2200 various bizarre image of Radio Japan from 5.96
Mhz all over the dial, beam NW, fading in and out
Can't explain (Hope it's not the radio, has it
disappeared since then?-gc)

2300 WRGN 88.1 PA Sweet Valley, ID
WNYU, WFDU, and WLJP all back on

MARCH 1992 DX**1 Tr**

1100 WJFF 90.5 NY Jeffersonville, ID in North
Bergen, NJ with very solid signal

2355 WRPR 90.3 NY Mahwah, ID and s/off, weak

2359 WNJT 88.1 NJ Trenton, ID and s/off, very
weak, FM Atlas lists as 15 watts vertical.

Bill Nienajadly P0 Box 2999 Clifton NJ 07015-2999

Sorry to say, not much to report in the way of DX. WOSR 91.7 in Middletown NY is on the air and they are a relay of WAMC 90.3 Albany. They are in stereo and can be heard on the car radio fading in and out as you drive around here. Thanx to Christopher Hanley in IL for the phone call and to Jeff Kadet for writing about Hy-Vee. They are a chain of stores in Iowa and western IL, this makes my UNID 99.7 seem very likely to be KFMH in Muscatine IA, a relog. Thanx guys for helping out! Phasing works great as ever, but the conditions have been lousey on average, many relogs via phasing, no new ones though. Still need Maine 102.9 though.

Current equipment set up, 2 Radio Shack 6 element FM only antennas on two separate rotors spaced 10 feet apart. RG-59 coax 100 ft length each line. Andy 30lin's phase box, Pioneer TX-9800 tuner modified w/two 180's & three 110's, plus various splitters. And no DX, Goodxing!

GREG CONIGLIO - 5100 GLENWOOD DRIVE - WILLIAMSVILLE, NEW YORK 14221**FEBRUARY 1992 DX****15 TrS**

1615 WALK 97.5 NY Patchogue, rms, calls 330

1626 WXCX 103.7 MD Havre de Grace, k\$ 273

16 MS

1226 KTUX 98.9 TX Carthage, "...Great to have
you along....Tux 99..Nirvana is..." 1138

16 TrS

1401 WCLT 100.3 OH Newark, T100, k\$ 279

1415 WWIZ 103.9 PA Mercer, k\$, 1104 145

1432 WPOS 102.3 OH Holland, g\$, calls
phased WJET and CKDK 274

2328 WSWR 100.1 OH Shelby, o\$, CKFM phs 251

20 Au

2337 WDET 101.9 MI Detroit, calls 232

24 Au

2012 WEZW 103.7 WI Wauatosa, EZ 104 471

APRIL 1 Tr

0000 CJFW 103.1 BC Terrace, nice strong
opening, just missed Alaska, % & !% 2409

73, Greg

SOUTHERN FM DX

Danny Buntin
1312 N. Skyline
Stillwater, OK 74075

APRIL 1992

DEADLINE: 14th

SOUTHERN FM DX is for reporters from: AL, AR, AZ, CA, CO, DE, FL, GA, HI, KS, KY, LA, MD, MO, MS, NC, NM, NV, OK, SC, TN, TX, UT, VA & WV.

IT'S TIME NOW TO START TUNING IN THE '92 DX SEASON, GOOD LUCK!

Jeff Kruszka, 2324-E Steamship Cir., Harahan, LA 70123

1/6 Es	1/6 Es
1726 KSPZ 92.9 CO Co Springs, ID 1030	1759 KPRN 89.5 CO G. Junction, Public Radio
1730 KMTS 92.7 CO Glenwood Springs, ID, k 1170	ID, ment. G. Jnc. 1210
1731 KTSC 89.5 CO Pueblo, ID 1000	1807 KJOL 90.3 CO G. Junction, ID, gospel 1210
1757 KWSB 91.1 CO Gunnison, ID 1100	1850 KRWN 92.9 NM Farmington, "FM 93, Classic Rock", "the crown" 1140

John Tudenham, 2824 Missouri, Joplin, MO 64804

Equipt.: GE Super Radio, Radio Shack DX 400. Just indoor antenna at present. Do most of my DXing on ham bands. Call is WOJRP. Two now stations heard here in Joplin, regular.

2/13 tr	2/19
2130 KBVA 106.5 AR Bella Vista, big band adult standards	2203 legal ID KGMV 100.5, "My country 100.5" k, This is ex KELE Aurora, MO, believed licensed to Republic, MO, now 50kw ERP

Gus Mancuso, 5615 Inwood St., Cheverly, MD 20785

Equipt.: Technics SA-222 & Radio Shack plain rabbit ears

2/13 tr
0001 WIOV 105.1 PA Ephrata, calls. Had just taped last 90 min. of WAVA as top 40 They then signed off for several hours leaving freq. open. Last words were ".....WAVA, Arlington-Washington and the future has come to this."

I read the Mt. Greylock bandscan confirming what I discovered in WV. Reception on top of mountains not so good, semi-locals become too strong, reception stagnates. Better to work in valleys!

Probably won't be making convention in Cleveland. Have another twilight zone that relates to DXing for the next time I go. Hope to get some of the new stations going on this spring like 92.9 in DEL. Planning to drive to FL to visit parents this summer and with modified set. FL tough due to limited land area and there being so many 100 kws. That spot in S.E. Conn. where they built a casino on an Indian res. might be a great spot for a scan. But the biggie may still be S.W. Penn. Would like to go back to Atlantic City, too. Was surprised on last visit, got better reception on "N.Y.C." side of bldg. Lady we stay with in WV dying of cancer, will go back first week of June, if possible. Hope to do the midway stop in Grantsville again. Even when we get skip here it's no guarantee of adding to total--keep getting LA & TX!

John Stempick, 1438 Colchester Cir., Port St. Lucie, FL 34952

Equipt.: Yamaha TX-930 tuner modified with 2 150 filters (Thanks Steve Solomon), Car stereo: Pioneer supertuner III modified with 1 150 filter & 1 110. All loggings are new IDs received upon relocation to Florida from Connecticut. Stations may have been received more than 1 time; only listed when first received.

This is my first report to the VUD I am very glad to be a part of the world of DXers. I relocated to Florida from Connecticut in October '91. I have had a few good openings since being here. It was great to catch KOGA of Ogallala, NE(Es) back in Nov. I believe the mileage is over 1600 mi. I tape all of my catches and I can't wait until we really get into the trop season here in south FL. The days of going from temps in the 40's at night to warm fronts and highs near 90 in March. I'll be looking for big big openings in March. (Yeah, like gulf trop to TX. March would be one of the most likely times for trop like that. DB) Reception changes frequently here in Port St. Lucie. Certain days and nights feature Orlando, others Miami, Tampa Bay, Ft. Meyers and Jacksonville. I guess for me to report those stations as "tr" would be kind of lame. So anytime south of Miami or North or west of Jacksonville and north of Tampa Bay will be reported. Happy DXing folks!

10/30 tr
0845 WRHT 96.3 NC Morehead City
11/5 Es
1600 KOGA 99.7 NE Ogallala

11/30 tr
1645 WHTK 99.7 SC Hilton Head
1647 WSYN 106.5 SC Georgetown
1649 WXLV 102.5 SC Charleston

cont....

SOUTHERN FM DX

Stempick, cont.

APRIL 1992

7/13 tr

1703 WSSX 95.1 SC Charleston
 1900 WKBX 106.3 GA Kingsland
 1955 WZAT 102.1 GA Savannah
 2003 WLCL 95.5 FL Gainesville
 2045 WGOO 98.3 GA Midway-Brunswick
 2050 WBGA 102.5 GA Waycross
 2140 WAIA 93.3 FL Jacksonville Market
 2225 WHJX 101.5 GA Brunswick
 2227 WBYZ 94.5 GA Eulonia
 2240 WLOW 106.9 SC Blufton
 2253 WFHH 106.1 SC Hilton Head
 2305 WBPR 97.7 SC Myrtle Beach

11/14 tr

0704 WFFM 105.7 GA Ashburn
 0725 WKAA 97.7 GA Ocilla
 0737 WCHY 94.1 GA Savannah
 1050 WOOF 99.7 AL Dothan

12/15 ms

2119 WSKZ 106.5 TN Chattanooga, KZ106.5
 1/4 Es (recieved in car in Port St. Lucie)
 1815 KATG 94.7 TX Austin(Lulling)
 1817 KHFI 96.7 TX Austin
 1830 KBTS 93.3 TX Austin

1/7 tr

0145 WGGD 102.3 FL Melbourne(Over local WHLQ
 Jensen Beach 5 miles.)

0200 WKZM 105.5 FL Sarasota
 0205 WXTB 97.9 FL Tampa,(o/WRMF West Palm
 40 mi.)

0215 WYNF 94.9 FL Tampa,(o/WZTA Ft. Laud.)
 0225 WMWZ 93.7 FL Ocala,(o/lcl WGYL Vero
 Beach)

0245 WXKB 103.7 FL Ft. Meyers, o/lcl WQOL
 Vero Beach

1115 WRHQ 105.3 GA Richmond Hill

1200 WKXZ 104.5 SC Mt. Pleasant

1315 WWOQ 101.3 NC Wilmington

1320 WAVF 96.1 SC Hanahan

1333 WXTG 96.9 SC Charleston

1343 WYBB 98.1 SC Charleston

1355 WGNI 102.7 NC Wilmington

1410 WSFM 107.5 NC Southport

1430 WQDR 94.7 NC Raleigh-Durham

1442 WEZL 103.5 SC Charleston

1457 WYAV 104.1 SC Conway

1/8 tr

0147 WBUB 107.5 SC Charleston

1/8 tr

0152 WDEM 105.3 GA Macon
 0200 WQZY 95.9 GA Albany
 0225 WFOX 97.1 GA Gainesville-Atlanta
 0238 WJIZ 96.3 GA Albany
 0257 WAEV 97.3 GA Savannah
 0315 WZBX 106.5 GA Sylvania
 0319 WYOC 104.9 FL High Springs

1/22 Es

1712 KCMO 94.9 MO Kansas City,oldies 95
 1715 KLSI 93.3 MO Kansas City, Mix 93
 1718 KFKF 94.1 MO Kansas City, 94 FM KFKF
 1720 KLTH 99.7 MO Kansas City, Light 99.7 KLTH
 1725 KCBW 92.1 MO Sedalia, B92-KCBW
 1736 KEFM 96.1 NE Omaha, Light 96
 1741 KZKX 96.9 NE Seward, 96 Kicks
 1744 KNCY 97.7 NE Nebraska City
 1750 KFMZ 98.3 MO Columbia, 98.3 KFMZ
 1751 KQKQ 98.5 NE Omaha, Sweet 98
 1754 KGOR 99.9 NE Omaha, great oldies KGOR
 1758 KGBI 100.7 NE Omaha (xlator of KMZO, MO?)

tr

2358 WSFL 106.5 NC New Bern

1/23 tr

2100 WNFB 94.3 FL Lake City, B94
 2250 WYKS 105.5 FL Gainesville, Kiss 105

1/30 tr

0200 WPIK 102.1 FL Key West, Picket 102

1/31 ms

1813 unID? 96.3 "96 Country KNG?" (Any help?)

2/12 tr

0011 WSTH 106.1 AL Alexander City, South 106

0930 WTCQ 97.7 GA Vidalia, 98Q

0945 WJJN 101.3 AL Dothan, Joy 101.3

0950 WZHT 105.7 AL Montgomery, HOT 105.7

1000 WXRS 103.9 GA Swainsboro, 104 FM

1053 WXUS 100.5 AL Fort Rucker, US 100

1100 WGPC 104.5 GA Albany

1135 WSNI 107.1 GA Thomasville, Sunny 107

1205 WSTI 105.3 GA Valdosta, Star 105.3

1209 WMLO 104.9 FL Havana, Mellow 105(YAWN)

1215 WQHJL 98.1 FL Live Oak

1219 WDJR 96.9 AL Enterprise,G. Brooks Radio

1225 WZAD 97.3 GA Bambridge, Power 97

1236 WVRK 102.9 GA Columbus, Rock 103

1915 WOWW 107.3 FL Pensacola, WOW 107

1918 WZBA 104.9 AL Moss Point-Mobile,Bay Ctry

1920 WAVH 96.1 AL Mobile, oldies 96

2345 WWSF 98.1 AL Andulusia, 98 Surf FM

Alain Pepin, 234 Boul Montcalm, St. Jean (Quebec) J3B 3NB

Danny did you get my report from the Dominican Republic? (No, I misplaced it. Sorry.
 Can you send another one? DB) Well, here is one from Bonaire. I didn't hear any FM from
 Caracas, the AM was astoundingly clear! YVKS 750 was splashing from 720 to 770! PJB was
 sandwiched between two very loud blasters from Coro on 780 and 820.

DX at the Black Durgon Inn, Bonaire, Netherlands

Equipt.: Sanyo MW-750 with built-in antenna, Times: ATLANTIC (UTC-4h)

Normal reception:

Feb 10 1002 PJC? 93.9 N.A Willemstad, "Radio Kursou FM"

Feb 10 1304 PJB2 94.7 N.A Bonaire "Voz di Bonaire 94.7 FM stereo: tur dia for di seisor di
 mainta te cu diesdoso di anochie": Papiamento for "Voice of
 Bonaire, every day from 6:AM to midnight". English ad for Coke

Feb 09 0600 PJZ 95.5 N.A Willemstad "95.5 Z-FM" sign-on in Papiamento

Feb 11 1000 PJB3 97.1 N.A Bonaire "Ritmo FM", automated pop mx

Recurring jingle: "Mas cerca bo via bo radio, Ritmo FM"

Papiamento for "Closer to you thru your radio, Rhythm FM"

Feb 09 0900 PJC7 101.9 N.A Willemstad "Aqui ta Radio Hoyer": papiamento //1010kHz

cont.

SOUTHERN FM DX

Pepin, cont.

APRIL 1992

Feb 03 2100 PJC9 105.1 N.A Willemstad "Hoyer Clasico, interval signal

TROPIC:

Feb 08 2000 YV ? 92.9 VEN Barquisimeto "Denamica" jingle, same as 1490 YVXD
 Caracas, Time check: "8:03 Dinamica Hipica" Horse race
 race results, ment. "Amigos y amigas de Dinamica 92.9 la
 FM #1 en Barquisimeto" 160 mi.

Another unID wqas heard around 98 mHz with Barquisimeto ads but not ID.

N.A = Netherlands Antilles VEN = Venezuela

All stations in stereo, no noted subcarriers. Willemstad was 50 miles away,
 and I was sitting on Bonaire. Radio Nederland was heard throughout the FM dial
 because of shortwave overload from the nearby towers.

 Christopher S. Dunne, 21541 Nw 8 Ct., Box 81, Pembroke Pines, FL 33029

Equipment: JVC RX302Ba modified w/ 150kHz filters
 Archer 6-element FM antenna

It's a bit of a dry off-season for FM/TV DX, but I look forward to a big year in 1992.
 I have some news at the end of my column that I hope will be of use to the DXer who
 gets a lot of unid SS stuff!

Time	Call	Freq.	St	Location, details	Miles	Time	Call	Freq.	St	Location, details	Miles
11/22/91	Tr					1/25/92	Gw				
2325	WSUV	106.3	FL	Ft. Myers Villas, "Sunny 106.3", rm - NEW	100	1615	88.3	FL	PIRATE, "Base (Bass?) 91.9" (sic), o mx w/ "Brother Mike"	?
11/23	Tr					1/17	Tr				
0000	WRBH	88.3	LA	New Orleans, phone QSL by Trudy Stewart, nothing else in this far away	600	2333	WBPT	89.5	FL	Naples, "Power 89.5", s, NEW. TAKE NOTE: This is //WSRX 91.5 "The Spark"	75
12/3	Tr					Also... "Es in the Keys" 1/19/92: Opening to Tex/Mex....SS unids 93.7/94.9, Tampico "Super Estelar" 94.5/teat. XHMU 90.1 "Estereo Vida", & KATG 94.7 TX "The Cat", ment. Texas Rangers BB team.....					
0900	WJIR	90.9	FL	Key West, ID + "Where Jesus Is the Rock"	125						
12/24	Tr										
1130	WPIK	102.5	FL	Summerland Key, k Christmas mx, tests - NEW	110						

Local FM News... WKZY 92.5 LaBelle now SS, //WZOR 1490... WGUF 92.7 Marco now back to
 b mx...Sarasota 102.5 is now WHPT ("The Point"), r...WAXY 105.9 has gone back to o
 after a disastrous attempt at the "Mix" r format ("waxy 106"); their last book was a
 124, which won't "cut it" here...

Hey, does anybody have the new 1992 World Radio TV Handbook? There's great news in
 there for those of us who hear Central/South America on Es or other method: in this
 year's book, there are lists of FM stations there (in capital cities only). This is
 a start anyway; maybe they'll carry all Latin FM in later editions. The only way,
 however, to convince the WRTH to do so is to write them. Also - if anyone has
 reported Latin FM in a column, make a copy and send them one. Back-issue VUDs might
 help, so they can see that Latin America isn't "immune" to being heard. Please
 write (Postage 50¢ for 1/2-ounce):

Andy Sennitt
 WORLD RADIO TV HANDBOOK
 P.O. Box 9027
 1006 AA Amsterdam
 THE NETHERLANDS

 PAT Dyer WA5IYX, 5315 Silvertip Dr., 78228-2744

Dec 1991

2: (Es)

1711 CJBX 92.7 ON London
 1723 OKLW- 93.9 ON Windsor
 1729 WAMU 88.5 DC Washington
 1751 WLTJ 95.7 VA Norfolk
 1759 WRNL 88.3 VA Lynchburg
 1805 WJNC 91.5 NC Chapel Hill
 1809 WJIE 88.5 KY Okolona

3: (Es)

1655 WRVL 88.3 VA Lynchburg

11:

3551 WJIE 88.5 KY Okolona (ms)
 3552 KDCR 88.5 IA Sioux Center (ms)
 0759 WBYN 89.7 TN Chattanooga (ms)
 0814 KNKC 107.7 TX Georgetown (tr)

CONT.....

12:
2800 WBCA 88.5 IL Quincy (ms)

13:
0548 WSKR 92.5 KY Owensboro (ms)
0659 KJOS 91.5 NE Omaha (ms)

14:
0559 KIOS 91.5 NE Omaha (ms)

17: (Es)
1821 WBOF 93.5 FL Belle Glade
1822 WKIS 99.9 FL Boca Raton
1825 WLYF 101.5 FL Miami
1825 WRMF 97.9 FL Palm Beach
1830 WPOW 96.5 FL Miami
1832 WCMQ- 92.3 FL Hialeah
1834 WCVU 94.5 FL Naples
1846 WRGI 93.5 FL Naples
1849 WLVE 93.9 FL Miami Beach
1900 WMCU 89.7 FL Miami

21: (Es)
1906 KKFR 92.3 AZ Glendale

24: (Es)
1701 TG-- 88.5 Gua

17: (tr)
1846 XHSRO-92.5 NL Monterrey

all Es unless noted

2:
1757 WQZN 98.7 FL Key West
1800 WQOW 92.5 FL Key West
1801 WKRY 93.5 FL Key West
1833 WCMQ- 92.3 FL Hialeah
1934 RBz I 88.9 Bze Belize City

3:
1524 YSEV- 89.7 EIS San Salvador
1526 TG-- 88.5 Gua
1530 TGFP- 88.1 Gua Guatemala City
1532 TGRT- 88.8 Gua Guatemala City

4:
0159 WVPN 86.5 WV Charleston
WOSU- 89.7 OH Columbus
2005 WPA- 88.5 MN Rochester (ms)
1628 TG-- 88.5 Gua

5:
1749 KRQQ 93.7 AZ Tucson
1752 KKLD 94.9 AZ Tucson
1772 KTZN 92.1 AZ Green Valley
1759 KABA-107.9 TX Johnson City (tr)

6:
1600 WPKL 89.3 VA Lynchburg
1636 WBOF 93.5 FL Belle Glade
1640 WAXM 93.5 VA Big Stone Gap
1652 WKSI 98.7 NC Greensboro
1656 WKRR 92.3 NC Asheville
1659 WMHK 89.7 SC Columbia
WRJA- 88.1 SC Sumter
1700 WKHX-101.5 GA Marietta
1710 WXPX 97.9 FL Palm Beach
1712 WMCU 89.7 FL Miami
1715 WPOW 96.5 FL Miami
1716 WZTA 94.9 FL Miami Beach
1718 WCMQ- 92.3 FL Hialeah
1722 WAYJ 88.7 FL Fort Myers
1732 WLVE 93.9 FL Miami Beach
1742 WXDJ 95.7 FL Homestead

1738 KLDZ 95.1 NE Lincoln
1741 KISD 98.7 MN Pipestone
1747 KEZO- 92.3 NE Omaha
1746 KKOK 95.7 MN Morris
1751 KELO- 92.5 SD Sioux Falls
1759 KIWR 89.7 IA Council Bluffs
1809 KTRX 93.5 MO Tarkenton
1819 KLGK- 97.7 MN Redwood Falls
1822 KMIT 105.9 SD Mitchell
1838 KESD- 88.3 SD Brookings
1852 WMNF 88.5 FL Tampa
1856 WZZR 92.7 FL Stuart

7:
1900 WMNF 88.5 FL Tampa

9:
1712 XHSRO-92.5 NL Monterrey (tr)
1725 TG-- 88.5 Gua
1735 YSEV- 89.7 EIS San Salvador
1747 TGHR- 98.6 Gua Guatemala City
1749 YSEC- 94.5 EIS San Salvador
1805 YSCZ- 98.5 EIS San Salvador
1809 XHMX 97.9 CHI Tapachula
1815 TG-- 98.1 Gua
1821 TG-- 103.7 Gua

15:
1637 TG-- 88.5 Gua
1702 TGFP- 88.1 Gua Guatemala City
1747 TGN- 100.8 Gua Guatemala City
1750 TGHR- 98.6 Gua Guatemala City
1809 TG-- 95.3 Gua
1811 YSEV- 89.7 EIS San Salvador
1818 YSEX-105.7 EIS San Salvador
1820 YSKL-104.1 EIS San Salvador
1823 YSCZ- 98.5 EIS San Salvador
1825 YSUU-107.3 EIS San Salvador
YSEC- 94.5 EIS San Salvador
1841 TGX- 95.7 Gua Guatemala City

18:
1648 WMTX- 95.7 FL Clearwater
1650 WYUU 92.5 FL Safety Harbor
1657 WZZR 92.7 FL Stuart
1701 WQOW 89.9 FL Stuart
1703 WKPX 88.5 FL Sunrise
1705 WBOF 93.5 FL Belle Glade
1710 WMCU 89.7 FL Miami
1712 WPOW 96.5 FL Miami
1715 WZTA 94.9 FL Miami Beach
1718 WCMQ- 92.3 FL Hialeah
1722 WAYJ 88.7 FL Fort Myers
1732 WLVE 93.9 FL Miami Beach
1742 WXDJ 95.7 FL Homestead

Many thanks to YS1AG in El Salvador for helping with the ID's. I wish that I could find someone in Guatemala now!

March '92 QST has an article based on my FM Es data collecting from 1980-90.

73. Pat

WA5IYX

EASTERN TV-DX

Bill Nienajadly
PO Box 2999
Clifton NJ 07015-2999

APRIL 1992

Cutoff 3 months

Deadline The 5th

A one pager this month, which is sort of expected this time of the year. In the meantime this might be a good time to check your antenna system out, since the tropo and E-Skip season is only a month or so away. Check your coax, antenna lead-ins and replace it if needed. You know spring cleaning.

UNIDs should be sent to Matt Sittel, who is now running the CCI column. ETVDX will still print some unids as in the past. The last few ETVDX columns, other WTFDA members were real quick to help ID stations and quickly point out and correctly answer any UNIDs one might have had. So until the CCI column appears more often, we will continue to print unids. Please don't report stuff like UNID 31 without more information like UNID 31+, UNID 31 PBS UNID followed by something, otherwise it is a waste of time.

Those who check out TV often for signs of tropo ducting, should use other indicators too. Check out the National Weather Service 162+, check the HAM UHF bands, use your scanner for tropo searching. A scanner often has much more sensitivity than TV sets. ON to the DX

Bruce Hall 5 Stirton Ave Brantford Ontario Hitachi CU-130 Converter, Teknika TVC-22. Channel Master pre-amp
Delhi Combo VHF/UHF antenna at 40 feet.

January 1992 Tropo

29 2300 WPSX 3 PA	30 0029 WLYH 15 PA	30 0059 WETM 18 NY	29 2359 WENY 36 NY
29 2320 WPCP 8 PA	30 0030 WNEP 16 PA	29 2230 WHP 21 PA	
30 0240 WTAJ 10 PA	30 0030 WPHL 17 PA	29 0000 WYOU 22 PA-ment 98.5 WKRZ	

Jerry Beaudin Route 3 Box 2651 McMillian MI 49853

December 1991 Tropo

27 2023 CITY 57 ON 358	28 0032 WFMY 21 OH 436	28 0222 WPGH 53 PA 488	29 1913 WMBD 31 IL 429
2035 CFMT 47 ON 358	0033 WYTV 33 OH 437	0234 WICZ 40 NY 564	1914 WEEK 25 IL 429
2037 CBLFT25 ON 358	0045 WUAB 43 OH 389	0246 WITTE 28 OH 441	1924 WICD 15 IL 438
2059 WNEO 45 OH 439	0126 WPTT 22 PA 500	0301 WGPC 23 PA 534-TP	2221 WOAC 67 OH 429
2228 WSYT 68 NY 523	0129 WOTO 19 OH 391	0308 CFMT 47 ON 358-TP	2227 WYZZ 43 IL 421
2234 WWTI 50 NY ---	0139 WPMT 43 PA 627	0823 WBNX 55 OH 398	2229 WHOI 19 IL 429
2258 WCNV 24 NY 528	0144 WJET 24 PA 402	0958 CFTO 9 ON 358	2234 KLTJ 18 IA 408
2259 WXXA 23 NY 629	0159 WKBN 27 OH 437	1359 WCNV 62 (W62AN)-nt 2	2323 WXOW 19 WI 320
2306 WBRB 28 PA 602	0201 WENY 36 NY 523	29 1900 WAND 17 IL 459	2320 KYIN 24 IA 399
2316 KSAX 42 MN 454-nt 1	0205 WYTV 33 OH 437	1903 WICS 20 IL 480	

Note # 1 Off back of antenna which was pointed at NY stations.

Note # 2 ID-ed as WCNV-only ID given-(Jerry, it does point to Newdrow NY with 11.5 kw-congratulations!-BN)

JANUARY 1992 Tropo

4 2200 KRIN 32 IA 404	4 2400 KTN 21 IA 487-nt 1	5 0907 WKEF 22 OH 494	5 1314 WQRF 39 IL 319
2334 WXOW 19 WI 320	5 0053 KMEG 14 IA 579	1159 WXIN 29 IN 437	28 2211 KD SM 17 IA 494
2336 WQOW 18 WI 299	0059 WLAX 25 WI 321	1203 WFFT 55 IN 353	2216 WLAX 25 WI 321
2358 KSN 27 IA 579	0102 Note # 2	1208 WEHT 25 IN 583	2221 WXOW 19 WI 320
2359 KYIN 24 IA 399	0859 WQPT 61 Note 3	1229 WLF 18 IN 404	2223 KYIN 24 IA 399

Note # 1 On IOWA public TV stations only ID was IPTV, not each station's call letters.

Note # 2 Test Patterns Iowa Public TV on channels 21,24,27,32.

Note # 3 PBS another translator that I don't know what it is- ch 61 carrying ID and programming of WQPT Moline IL
I don't have any listing for this one. (Neither do I-BN)

Stephen West 26 Dougherty Blvd. G-8 Glens Mills PA 19342 N3FYO 215-358-2648

I have returned to the club after a respite. Equipment is a Radio Shack U-120, PA 4975 UHF amp, Pioneer TX-9500 II a Technics SA-222 receiver and a Technics ST-8044 with a six element RS FM antenna. The FM sets have been modified with great results. I recently bought a Triplight power inverter (100 watts) for the car. It should be handy for doing serious TV DX from the car this summer, since I can plug in a UHF amp & LCD TV in the car. Now I use a home tuner in the car. The DC to AC power inverter cost \$75 new, it is available at electronic & RV stores, and with the 100 watt version, the only connection is a cigarette lighter plug to the lighter jack on the dash. It would be great for DXpeditions to the mountains that do not have electricity.

One great place for a DXpedition is the Cape May Lighthouse at Cape May Point, NJ. The lighthouse is about 250 ft tall and has electricity at the top! I used a pocket TV last year & received D.C. and Trenton (NJ) on UHF with just whip antenna. (I didn't bring a amp because I didn't expect electricity up there.) The attendant was a Ham operator so he enjoyed the DXing. the conditons were bad for DXing the afternoon I visited the lighthouse. Delaware translators on 27 & 64 were snow free at the top of the lighthouse, and were nonexistent at the base of the lighthouse. Admission is \$3.00 for adults, less for seniors & children. The Technics SA-222 has a switch near the antenna terminals to change from .2 to .05 Mhz. Although i have been out of the club, I am a lifetime DXer & I enjoy watching "Weather World" on WITF-33 as well as receiving small town stations that do not have such tight playlists as the Philly stations. Dxing is a practical application of Marshal McLuan's quote " The medium is the message". Stephen

WESTERN TV-DX

Fred McCormack
Box 17860
St. Paul MN 55117-7860

Deadline: 05-07-92
Cut-off: 02-01-92

April 1992

E skip in February was only reported on the 2nd. The opening noted by Pat Dyer was an unusual early morning event. Pat also caught an F2 opening on the following day. 500+ mile tropo was noted by Bill Eckberg and Bill Draeb on the 2nd and also on the 3rd and the 3rd of March by Bill Draeb. John Ebeling noted five consecutive evenings of South American TV-DX while vacationing in Barbados.

New____ New Mode_ _ Tent. - t Unidentified - unid S/On - + S/off - =
ID Color Bars - @ Unid Color Bars - % Misc. Test Patterns - &
Parallel Programming - // MTS Stereo - \$

GR Guerrero

Pat Dyer, 5315 Silvertip Drive, San Antonio TX 78228-2744

CST

Equipment:

RCA 13" (1987) EMR350E color, KTV 12" 1210A b&w, Archer V-100 and 8-bay bow-tie UHF array at 20 feet with rotor.

December 1991	January 1992	7 Es 0958	KUSD	2 SD	945
2 Es 1455 WDTN	2 Es 1759 WPBT		WBAY	2 WI	1185
1629 CKCO2	4 Es 0129 WWAY		1220 WCIA	3 IL	930
1658 WSAZ	WFMY		1833 XHAP	2 GR	875
1705 WJBK	0206 WAVE		12 F2 0832-1011 unids ch 2		
1827 KTVI	1030 KXMA		16 Es 1856 WESH	2 FL	1040
1828 WAVE	5 Es 1346 WJXT		February 1992		
3 Es 1812 WJBK	1400 WESH		2 Es 0627 WWMT	3 MI	1160
1815 KTVI	1459 WSAV		WCIA	3 IL	930
1817 WBBM	1743 KTVK		0642 WBBM	2 IL	1055
1820 WCIA	6 Es 1528 WFMY		0657 WBAY	2 WI	1185
1857 WTOO	1529 WWAY		0747 KGAN	2 IA	960
1900 KIMT	1558 WBTW		0759 KTVQ	3 MO	840
8 Es 1700 WSJK	1648 WPTV		0805 WBTW	2 NC	1090
	7 Es 0958 KMTV		3 F2 0710-0752 unids ch 2		

I was trying for some of the Quadrantid meteor shower in the wee hours on the 4th and wound up with an E skip opening instead!

The F2 of the 12th, again, was likely from northern South America. Got 15+ minutes on video tape, with some of the apparent cartoons probably recognizable to those familiar with them. A high incidence of E skip in January, considering the December levels.

A March '92 QST article deals with my FM E skip data collecting for 1980-1990. 73, Pat, WA5IYX

William Eckberg, 1032 Sterling Road, Dixon IL 61021

CST

Equipment: See February 1992 Western TV-DX

February 1992	2 tr 0350	WLMT	30 TN	451	5 tr 0550	KHNE	29 NE	464
2 tr 0255 WAAY	0400	WLOV	27 MS	558	6 tr 0143	KTVP	29 AR	463
0300 WTOO	0435	WYMT	57 KY	449	0350	WOIO	19 OH	401
0315 WNAL	0500	WZTV	17 TN	408				
0342 WPTY	0530	WAFF	48 AL	503				

New loggings Memphis 24 and 30 were nearly snow free in quality. St. Louis 30 at the same heading was notably absent.

My "Fighting Cock" test pattern has appeared in Photo News so perhaps someone can shed some light on this mystery. Some members to the south have been very helpful, but no positive ID. I have eliminated all but a handful of channel 2s north of the equator.

In the movie "Star Wars" weren't there a race of people that bore a resemblance to chickens living in another galaxy. I have received comments that it looked like everything from a mug of foaming beer to a statue on Easter Island. To almost everyone at the convention, and myself, it looked like a rooster.

William Eckberg (continued) Basseterre, St. Kitts, British West Indies has just replied and stated that it was not them. They included some interesting information on their operation. They use color bars.

The reception briefly came in so strongly it completely wiped out WESH-2. The mystery station had the same offset as WESH-2. I can't find any mention of unusual 6 meter activity on that day in QST.

I received a reply from Port-of-Spain, Trinidad signed by the chief engineer. He stated that to his knowledge they never had a test pattern like that. Also other info.

John Ebeling, 9209 Vinent Ave S, Bloomington MN 55431

AST

Was on vacation in Barbados from February 1 to February 15. On the 6th of February, the hotel placed a Samsung color TV (model TC 9865TB) in our room for viewing local CBC-8 (Caribbean Broadcasting Corporation). This set was a 60 Hz version, even though their 110V is 50 Hz. Must use a chip (IC) which synchs in either line frequency, as set worked OK (vertical synch was stable).

Anyway, with a TV set in the room, I could do a little DXing at 13° N latitude, which is a far cry from Minnesota. Only had set's "rabbit ears" with which to DX, but when I had time to DX, results are as noted (Atlantic Standard Time):

2-10 2230-2330 chs 2-5 - aurora like E skip, active but no picture seen, but video very active. Spanish audio (at least two audios fighting it out on some channels). "Caracas" heard.
 2-11 2230-2330 chs 2-5 - like above (no Caracas).
 2-12 2230-2335 chs 2-5 - again like above.
 2-13 2245-2350 chs 2-6 - again like above.
 2-14 2230-2315 chs 2-5 - again like above.

Reception was best with antenna on an east-west path. Audio was all Spanish, two to three deep at times and at times sounded like a "heterodyne" between audios. Weird TV - so active but a "picture" seen for only a fraction of a second several times. Quite unlike any E skip I've seen over the 42 years in Minnesota DXing, aurora or otherwise.

I don't know if any aurora was present, as I could not see the northern sky; I was on the south coast of Barbados.

Not much of a report as I can not give any IDs, but it at least shows activity every evening that I was able to check. I did not notice any DX upon arising in the mornings (usually about 0800 AST).

They do have subscription (scrambled) TV in Barbados: chs 14 & 16 are Lifetime, 18 & 20 are ESPN Sports, 22 & 24 are CNN, and 26 & 28 are Turner Network TV.

(This sounds like Trans-Equatorial Scatter to me. Unfortunately, my references and old VUDs are in storage so I can't cite any sources. As I recall, in the early years of the club, Glenn Hauser reported T-E loggings while in southeast Asia. Also, Bob Cooper wrote on the subject. fm)

William Draeb, Ellis St., Rt. #2, Kewaunee WI 54216 (414-388-2350)

CST

Equipment: See February 1992 Western TV-DX

<u>February 1992</u>				2 tr 0658	WKYT 27 KY 473	19 tr 1903	WKPC 15(IN) 437
1 tr 1902	KOCR 28 IA 280				WLEX 18 KY 473		WTVQ 36 KY 473
1956	KNLC 24 MO 432		0711	WPBO 42 OH 462			KRIN 32 IA 280
	KDNL 32 MO 432			&WEVV 44(IN) 420		21 tr 1821	WKPC 15(IN) 437
	WHSI 46(MO) 432		0713	WBMG 42 AL 768			WLKY 32(IN) 437
	WTJR 16 IL 365		0720	WUSI 16 IL 390			WDRB 41(IN) 437
	KMIZt 17 MO		0736	WDKY 56 KY 480			WTVQ 36 KY 473
2032	KDINT 11 IA		0908	WGRB 34 KY 515		22 tr 0729	WKPC 15(IN) 437
	KIINT 12 IA			WCTEt 22 TN			WLKY 32(IN) 437
2354	WDRB 41(IN) 437			WYMTt 57 KY			WDRB 41(IN) 437
	WDKY 56 KY 480		0927	KAWB 22 MN 365		23 tr 1940	same as 02/22
2 tr 0327	K58BX 58 IA 250		2035	WKHA 35 KY 553		25 tr 2149	KHINT 36 IA
(Davenport	TBN)	16 tr 2004		WGBA 26 WI 25		2153	KSMQt 15 MN
	Rockfrd 33,45,62			(Now Fox)		26 tr 0535	KSHB 41 MO 525
0658	WAFF 48 AL 685		2109	WLKY 32(IN) 437			@KOIA 15 IA 345
	WDRB 41(IN) 437			(WXGZ-32 dark)		0541	@KCPT 19 MO 525
	WCET 48 OH 400			WDRB 41(IN) 437			@KSPR 33 MO 589
	WTVQ 36 KY 473	19 tr 1903		WDRB 41(IN) 437			KDEB 27 MO 589
	(Snow free)			WLKY 32(IN) 437			KOZK 21 MO 589

William Draeb (continued)			March 1992	3 tr 0711	WDIO 10 MN 286
26 tr 0551	●KYFC 50 MO 525	2 tr 2159	KSAX 42 MN 380	1200	(See Note # 2)
0609	WTCit 45 TN		KVRR 15(MN) 500	1721	KVRR 15(MN) 500
	WDSit 61 TN	2250	KAWB 22 MN 365		(Better than AM)
	WNEO 45 OH 405	3 tr 0630	KVRR 15(MN) 500		KSAX 42 MN 380
	CBLN4 45 ON 307		KSAX 42 MN 380		KAWB 22 MN 365
0611	WWAT 53 OH 437		KBMY 17 ND 665	2000	CBLN 40 ON 325
	WPBO 42 OH 462	0635	(See Note # 1)	4 tr 0410	W61-- 61 MI
0616	WDRB 41(IN) 437	0653	KTCI 17 MN 280	(Unknown	TAB)
			KDSD 16 SD 500		(Grand Rapids??)

Note # 1 - Positive ID at 0730 with KBMY-17-KCMY-14 ID slide.

Note # 2 - Early AM DX still in, but KBMY-17 mostly gone.

Two new ones this time. KBMY-17 was a nice surprise and my furthest tropo to the west. I looked for KCMY-14 in early AM, but nothing there. Checked VHF for KXMB-12, but WJFW-12 dominating.

The channel 61 I suspect is from the Grand Rapids area. It only makes sense; they have TBN on channel 19, LeSea on channel 15 and now Three Angels Broadcasting Network on channel 61. I wonder what other denomination will jump in? I'm not against religion, but if all three networks would pool their resources they could serve more people with just one high power station. The way it is now is a waste of spectrum space, in my book.

(Bill, I show a construction permit for W61BX in Grand Rapids. The permittee is Good News Television Inc. fm)

UPDATE ON THE N.J. SCANNER LAW

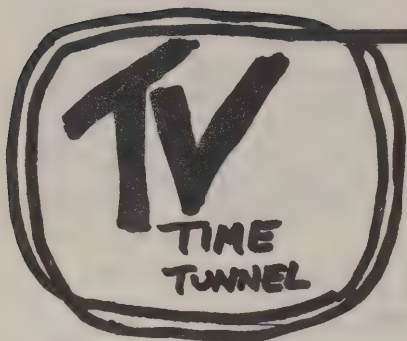
BY BILL NIENAJADLY

Around the third week in January 1992, Governor James Florio signed Senate Bill S-305 into law. This bill combined A-3044 and S-305. A-3044 was the actual repealing of NJ scanner law which several organizations like ANARC,ARRL,NESN and some WTFDA members all had a part in. Now the law states that if you are caught committing a crime, interfering with a police operation, and using a scanner for such illegal purposes, you will be charged with a Fourth degree crime. If you are a just hanging out & listening in your car driving around, you will NO LONGER GET ARRESTED FOR HAVING A SCANNER IN YOUR CAR, this applies to all law abiding citizens!

Fellow DXers, this is a very important and very intelligent step in the right direction. We as radio hobbyists, have won a important battle. New Jersey under the old law, didn't give consideration to Ham operators and now it does. In other states that still restrict scanners in vehicles I believe Ham operators are exempt or could easily get a permit as a Ham. So those in states such as Indiana, you want to legally get a scanner in your car, get a Ham license & then a permit if needed. Really there are only a few states that have scanner laws still on the books. But my state, NJ was the biggest hurdle. Thanx to those who took part in the letter writing campaign!

About Jersey City NJ, as you remember JC was proposing to outlaw scanners in the privacy of ones home in that city. Word has it from a few sources is that the proposed ordinance was thrown out as overkill, invasion of privacy and violation of ones rights etc. In fact if one really interprets the new law S-305, If you use a scanner in your home for CRIMINAL purposes you can get busted where as before the cops had no law to battle the bad guys for using scanners for illicit purposes. Perhaps other states that still have 'scanner laws' can adopt New Jersey's intelligent 'S-305' and thus prosecute the criminals and leave law-abiding citizens the right to listen where ever they want to anything with out fear of arrest!

Those who wish for a copy of S-305, please send a SASE to ETVDX PO Box 2999 Clifton NJ 07015-2999.

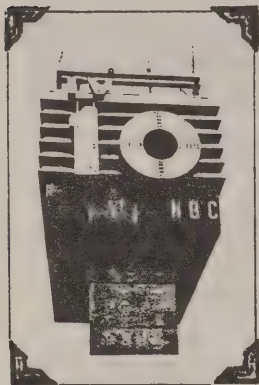


WSLS-TV 10

ROANOKE, VIRGINIA

A *Public* STATION

IT'S A VISIT TO PIEDMONT PIONEER WSLS-TV IN ROANOKE, VA. IN COMMEMORATION OF 35 YEARS ON THE AIR, THE STATION PUBLISHED "THE WSLS FAMILY ALBUM". A SAMPLING OF THE 1987 BOOKLET IS FEATURED HERE WITH NO COMMENT FROM YOUR COLUMN EDITOR...THE PHOTOS AND CLIPS TELL THE STORY QUITE NICELY! THANKS TO DAVID SHAPIRO FOR THE MATERIAL. Prepared by Tom Bryant; 849 Todd Preis Drive; Nashville, TN; 37221



American television is different from television anywhere else in the world in one special way; in America, local television is committed to serving the particular needs of its community.

To address the concerns and meet the needs of a grassroots audience means paying attention to those problems and issues that are unique to mainstream America. In that light, WSLS-TV has

set the pace for responsible broadcasting in Southwest and Central Virginia.

WSLS-TV, Virginia's pioneer television station, was, and is, a station of firsts:

FIRST on the air,
FIRST with live remote coverage,
FIRST with videotape recording capability,

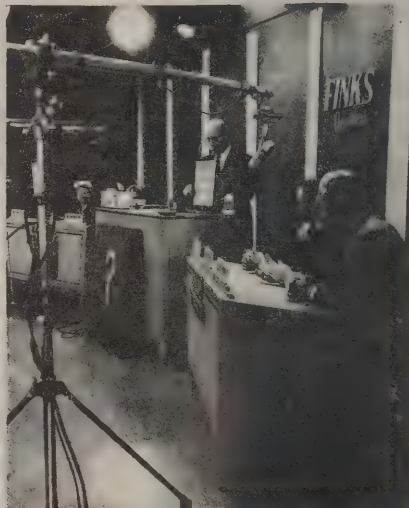
FIRST with full color coverage, network and local,
FIRST to "feed" live network programming to a national audience, and
FIRST with minicam coverage of news in the field.

Those who founded, directed and toiled in the fields of early local television did so with vision. They literally rolled up their sleeves, drew on their creativity and forged a communications concept.


For three and one-half decades WSLS-TV has been the pathfinder. It enjoys an unparalleled past, an enviable present, and an exciting future.

On these pages, the years of service by WSLS-TV are chronicled in abstract. Read them and share in the pride of those whose contributions have made WSLS-TV 10 a household name.

Lee Garrett
Director, Community
Services
WSLS-TV



Join HAYDEN HUDDLESTON



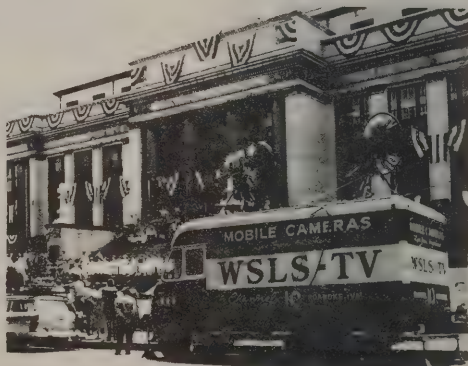
for
KLUB KWIZ

SATURDAYS at 7:00 PM on...

WSLS-TV 10

ROANOKE, VIRGINIA

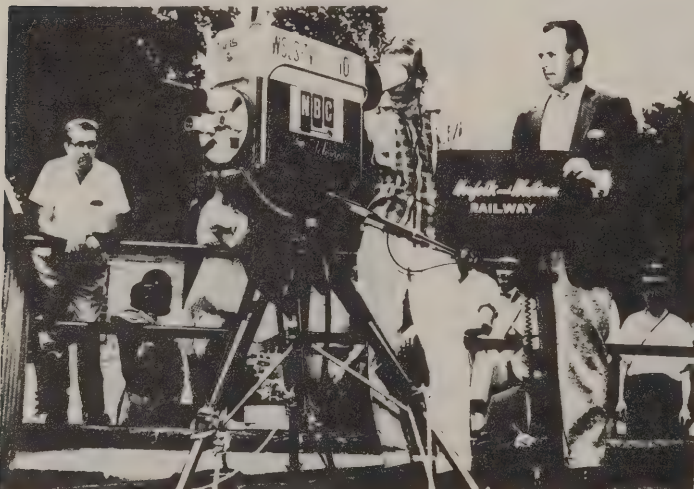
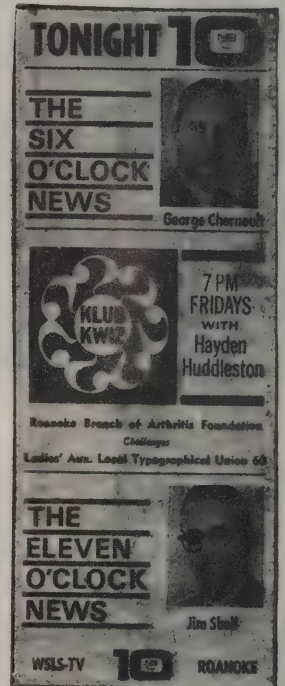
A *Public* STATION



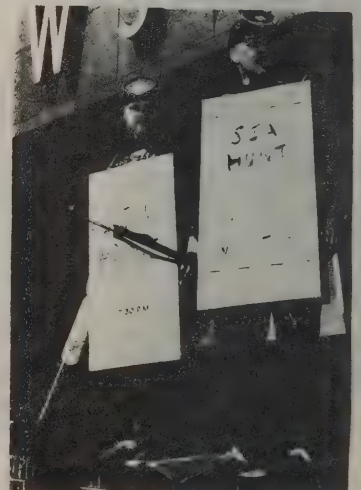


#1 News team in Virginia (1954)

(l to r) Joe Moffatt, News Director; Tom Wright, Anchor (Your ESSO Reporter); Glen Robertson, Photographer; Jim Walsh, Reporter; John Gilbert, Reporter; Jim Shell, Reporter; and Ed Thomas, Sports Director.



Cameraman Glen "Whitey" Robinson and George Chernault chronicle the final run of the Pocahontas. (June 1971)





Roanoker William Dupree, a member of the U.S. Air Force Singing Sergeants (and reknowned concert and operatic tenor) performs on the "Today" show during its origination from Mill Mountain.



GOOD LOOKING!

NEW CHAPARRAL

8:30 NEW CAR. Danger threatens the Cannons when they offer refuge to some orphaned Apache children.

STAR TREK

10:00 NEW TIME! Capt. Kirk and Mr. Spock try to obtain an amazing military device.

NAME OF THE GAME

8:30 NEW SHOW! Robert Stack learns that the name of the game a certain Mafia member plays is 'no holds barred.'

IN COLOR TONIGHT ON

10

NEXT MONTH: Paducah, Cape Girardeau, Harrisburg - AND - Monkey's Eyebrow

ONE HOP...TWO HOP...THREE HOP...

MULTI-HOP OR NO HOP AT ALL?

BY JOOP J. PROSÉE

In the Sept. '91 VUD page 24, Doug Allen is again taking attention to the article I wrote for the June '90 VUD about new sights upon ionospheric propagation, in which, in particular the so called two or more hop Es mode was put to a test. In my article the theory was brought up which says that extraordinary big distances with Es propagation could be declared by means of the so called, "No Hop Theory" in stead of the commonly used explanation among HAM's and (TV)DXers that is based upon the so called "Hopping Theory".

In his article it looks like Doug is thinking that the "No Hop" theory is my personal invention, because he states in his article "Joop J. Prosee's No Hop theses", once again I declare that everything in my article then, was based on what can be found in all kinds of literature about propagation. Among others, some of the propagational findings out of the first chapter of the 14th edition of the ARRL Antennabook were partly incorporated in my article.

Doug is disagreeing with the "No Hop" theory, well it is his right to do so and I'm not writing this article to convince the disbelievers of the "No Hop" theory, but we have to take into consideration that the so called "Hopping Theory" is also not more than a "theory".

And, let us in the first place agree upon what we have to understand when we use the expression "Double HOP" propagation. For me and I hope everybody agrees, "Two HOP" or mostly called among TVDXers "Double HOP" propagation goes: Earth-Ionosphere-EARTH-Ionosphere-Earth. So when I hear or read: "Double HOP" I always interpret this with an earthly reflectionpoint somewhere in the middle of the path!

Now we have set this matter clear, it is time to go further with this subject and some more explanation and examples concerning the the mechanism between the sometimes amazingly big distances that can be reached with apparently quite normal Es propagation.

For me, one of the most convincing facts that I found in propagational literature, putting the multi hop theory aside, was the report on experiments with so called, "round the earth signals". These are mostly Shortwave signals that travel around the earth, these signals can be received after they travelled around the earth, on the same spot where they were transmitted from. The scientists that were carrying out the measuring on the signals made calculations on what signal delay-times could be expected before the actual experiments took place. In these first calculations they took in consideration a certain amount of hops between the ionised layer and the earth's surface. When the actual experiments took place, the scientists were absolutely surprised about the times that were measured. The measured "round the earth" times were considerably lesser than was calculated at first. The conclusion they draw was: "Electromagnetic signals tend to travel around the earth without hopping", nowadays commonly known as "Supermode". In the ARRL antennabook 14th edition you can also read about this matter on page 8 of chapter 1 under: "Single and Multihop Propagation". This complete chapter is highly recommendable for VHF/UHF DXers!

In his article Doug asks for information about "1500 miles plus" Es DX. Maybe info about this matter from Europe is also welcome? In the part of midwestern Europe where I live the reception of "1500 miles plus" signals is rather common and is occurring quite many times every Es season. Especially TV and FM signals from the Middle-East come in regularly. One of the TV transmitters that can be received 6 to 10 times per Es season is the 104 kW ERP transmitter on ch E3 of the JTV from Jordan...the Suweileh transmitter near the capital Amman at a distance of 3375km (2100 miles). Less common is the reception of the two Syrian ch E3 TV transmitters at 3150km and 3479km. Other Middle-East TV guests are ARAMCO-TV with 5 kW ERP from Saudi Arabia at 4754km, the 120 kW ch E4 transmitter of Bahrain at 4778km and sometimes even the ch E2 150 kW ERP DRCTV Dubai transmitter can be received here in Holland at a distance of 5162km (3210 miles!). On the 16th of June 1991 I received a TV transmitter on ch E3 which was showing Arabic pages of teletext. At first I thought this was the "common" transmitter of Jordan (same offset) but later on, it became obvious that this was the 5kW (!) ch E3 transmitter of Abu Dhabi in the United Arab Emirates at the unbelievable distance of 5160km (3208 miles)...this reception lasted for almost two hours.

ONE HOP...TWO HOP...THREE HOP...MULTI-HOP OR NO HOP AT ALL?

One of the most remarkable periods in this field was the entire month of July 1990. Between the 30st of June and the 1st of August there was an amazingly large amount of TVDX receptions of Iranian TV transmitters in Holland. Unfortunately I was on vacation but I managed to see the last two openings toward Iran. Totally there were 15 separate days, IRIB-TV could be received in Holland with amazing strengths and even sometimes with SECAM colour on channels E2, E3 and E4 simultaneously. The distances between the Iranian TV transmitters and Holland are between 3910km and 4620km. This is so extremely remarkable because as could be remembered Iran-TV was only seen two or three times in the last 30 (!) years by Es propagation in Holland or in western Europe at all!...

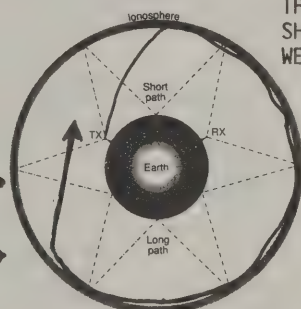
If we look back on the 1990 Es-season, it appears to be absolutely the best if looking at the number of times Near- and Middle East Band-1 TV transmitters were received: 15 days Iran (3910-4620km), 12 days Jordan (3375km), 2 days Syria (3300km) and 1 day Saudi Arabia (4750km).

Even the Es-season of 1991, commonly regarded as one of the lesser ones of recent years both in the USA and Europe, did bring in 12 separate days with Jordan TV on ch E3 plus nine days with other lowband TV transmitters from the Near- and Middle-East with distances between 3200 and 5160km!

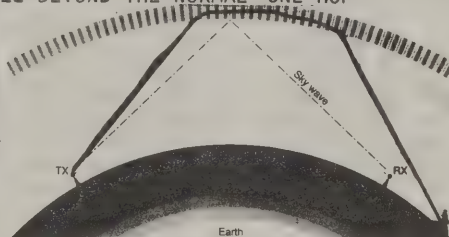
CONVENTIONAL MULTI-HOP SIGNAL PROPAGATION PATH VERSUS 'NO-HOP' PATH

MULTI-HOP: - - - - -

'NO-HOP': —————



THE 'SUPERMODE' PATH SHOWING SIGNAL TRAVELLING WELL BEYOND THE NORMAL 'ONE-HOP'



What conclusions can we draw from the above information about the mentioned 1500 miles plus receptions? When we looked at photographs belonging to the 1500 miles plus receptions one thing was rather striking, the almost absence of ghosting. Only the photos of Abu Dhabi showed some moderate ghosting. In particular one photo of the Jordanian PM5534 test pattern, one of the IRIB testcard, and one of an IRIB announcer showed absolutely no ghosting, the announcer's photo is only showing some cochannel interference! When "Double Hop" propagation should be the matter with these receptions, it would be reasonable to expect much more ghosting because of the midpath earthly reflectionpoint! Also because of the surprisingly great amount of this "1500 miles plus" receptions here in Holland from the Middle-East, it is not imaginable that every time two separate Es-areas (clouds) are involved with an only constant preference for the Holland/Middle-East direction. In my point of view it is more likely that for some reason or another an enormous Es area arises between midwestern Europe and the Middle-East. In this "super Es-cloud" it is not unlikely that the phenomenon of "Supermode" is taking care of the transportation of the signals from one end to the other end of the Es-cloud.

If one reads the propagational theories, you always encounter, that saltwater paths are absolutely preferable for long distant (hop) propagation. If so, why do we receive here in Europe so many times "1500 miles plus" via a theoretically nonpreferable land path and why do we receive almost never USA and Canadian Band-1 signals, of which there are 30 in the range 3900km to 5300km, via the preferable saltwater path when an intermediate earthly reflectionpoint should be involved as should be the matter with "Double HOP" propagation?

A huge amount of questions about these propagational matters will remain open and maybe we'll never know exactly, how it is possible that sometimes such big distances are bridged with obvious normal Es-propagation. But if we don't think and talk about these matters we sure will never know what is going on!



STATISTICS

Fred Nordquist
7945 Boxford Rd
Clay, NY 13041
Deadline: the 5th

ALL-TIME FM DISTANCE RECORDS

FM STATISTICS

AS OF 2/20/92

MHZ	PR	CALL	STATE/LOCATION	DIST	DXER-LOC	MHZ	PR	CALL	STATE/LOCATION	DIST	DXER-LOC	MHZ	PR	CALL	STATE/LOCATION	DIST	DXER-LOC
88.10	ES	WCRP	PR GUAYAMA	2280	DBU-OK	90.70	TR	KVND	NE OMAHA	902	DNI-NY	93.50	AU	WLMH	WI NEW LONDON	339	ABO-IL
88.10	TR	----	GUATEMALA	1047	MDA-FL	90.70	MS	WXEL	FL W PALM BEACH	1130	DNI-NY	93.70	ES	WJIT	PR SAN JUAN	2263	KCO-OK
88.10	MS	WUWF	FL PENSACOLA	1174	DAL-CD	90.70	AU	KMMU	MO ST LOUIS	850	JFE-NJ	93.70	TR	KDB	CA SANTA BARBARA	2400	SREIHI
88.10	AU	CBAF29	PE CHARLOTTETOWN	788	DNI-NY	90.90	ES	KCMW	MO WARRENSBURG	1534	JJE-CA	93.70	MS	WCCA	MA LAWRENCE	1501	KCO-OK
88.30	ES	WMIN	IN EVANSVILLE	1876	JJE2CA	90.90	TR	KUNI	IA CEDAR FALLS	828	FNO-NY	93.70	AU	KMYR	SD WINNER	682	ABO-IL
88.30	TR	KBNR	TX BROWNSVILLE	926	CHO1FL	90.90	MS	CBX	AT EDMONTON	1170	JJE2CA	93.90	ES	KPOL	CA LOS ANGELES	2141	MDA-FL
88.30	MS	WRBH	LA NEW ORLEANS	1109	DNI-NY	90.90	AU	KUNI	IA CEDAR FALLS	589	FMC-ND	93.90	TR	WBUS	FL MIAMI BEACH	1152	GHA-TX
88.30	AU	WAER	NY SYRACUSE	670	ABO-IL	91.10	ES	JBC-2	JAMCOOPER'S HILL	1950	JPI-NM	93.90	MS	WWVL	FL MIAMI BEACH	1306	SCH-ON
88.40	ES	TGRT	GU GUATEMALA	1136	GHA-TX	91.10	TR	XETRA	BONTIJUANA	2518	SREIHI	93.90	AU	WWVL	FL MIAMI BEACH	838	ABO-IL
88.50	ES	WHCF	ME BANGOR	1955	PDY-TX	91.10	MS	KSJN	MA ST PAUL	1123	GHA-TX	94.00	ES	XET	NL MONTERREY	1382	JEB-MN
88.50	TR	WNMF	FL TAMPA	984	PDY-TX	91.10	AU	KSJN	MA ST PAUL	739	DNI-NY	94.10	ES	WOYE	PR MAYAGUEZ	2263	RBR1IA
88.50	MS	WFDD	NC WINSTON-SALEM	1161	GHA-TX	91.30	ES	WIPR	PR SAN JUAN	1806	CHO-OK	94.10	TR	KFSD	CA SAN DIEGO	2513	SREIHI
88.50	AU	WAMU	DC WASHINGTON	932	JEB-MN	91.30	TR	WTHS	FL MIAMI	1148	GHA-TX	94.10	MS	KBTO	TX BEAUMONT	1192	PSA-ON
88.60	ES	HILF	DR SANTO DOMINGO	1050	MDA-FL	91.30	MS	CKUA	AT DRUMHELLER	1055	JJE2CA	94.10	AU	KCKM	KS KANSAS CITY	881	DNI-NY
88.70	ES	KFGG	TX CORPUS CHRISTI	2029	MCH-BC	91.30	AU	WCHY	NY SYRACUSE	530	RBR-MI	94.30	ES	KVFA	CA SAN FERNANDO	1510	DNO-IA
88.70	TR	HRLP	MONTEGUCIGALPA	1000	MDA-FL	91.50	ES	RJR	JAMORACABESSA	1950	JPI-NM	94.30	TR	WGMW	FL RIVIERA BEACH	1136	GHA-TX
88.70	MS	WHA	WI MADISON	1080	GHA-TX	91.50	TR	WFSU	FL TALLAHASSEE	861	PDY-TX	94.30	MS	WUUU	TN OAK RIDGE	1221	FMC-ND
88.70	AU	WHA	WI MADISON	684	FMC-ND	91.50	MS	WHMD	WI SURING	1219	GHA-TX	94.30	AU	CFRW	MA WMINNIEP	743	RBR-MI
88.80	ES	TGRT	GU GUATEMALA	1148	PDY-TX	91.50	AU	WRPI	NY TROY	512	FME-MI	94.50	ES	KELT	TX HARLINGEN	2111	MCH-BC
88.80	TR	TGRT	GU GUATEMALA	1047	MDA-FL	91.70	ES	KRSW	MA WORTHINGTON	1457	JPI-NM	94.50	TR	KELT	TX HARLINGEN	934	CHO1FL
88.90	ES	WSHA	NC RALEIGH	2069	FAD1ID	91.70	TR	XXHL	NL MONTERREY	1101	CHO1FL	94.50	MS	KTSP	MA ST PAUL	1113	PDY-TX
88.90	TR	XHM	DF MEXICO CITY	1192	MDA-FL	91.70	MS	KOSU	OK STILLWATER	870	FMC-ND	94.50	AU	WRVG	VA RICHMOND	575	RBR-MI
88.90	MS	WBBW	TN CHATTANOOGA	1122	DAL-CD	91.70	AU	KRSW	MA WORTHINGTON	861	DNI-NY	94.70	ES	KTYN	ND GRAND FORKS	1582	MDA-FL
88.90	AU	WBBW	TN CHATTANOOGA	745	FNO-NY	91.90	ES	WSIU	IL CARBONDALE	1748	JPI1CA	94.70	TR	KAPT	TX LULING	919	CHO1FL
89.00	ES	YSRI	ES SAN SALVADOR	1246	PDY-TX	91.90	TR	KBNJ	TX CORPUS CHRISTI	903	CHO1FL	94.70	MS	KSET	TX EL PASO	1073	ABO-IL
89.10	ES	KFAE	WA RICHLAND	1620	PDY-TX	91.90	MS	WHRM	WI WAUSAU	1012	RWO-LA	94.70	AU	WPTF	NC RALEIGH	512	FME-MI
89.10	TR	XHRA	JALGUADALAJARA	1388	MDA-FL	91.90	AU	WSIU	IL CARBONDALE	741	FMC2ND	94.80	ES	TGDX	GU GUATEMALA	1136	GHA-TX
89.10	MS	WBSN	LA NEW ORLEANS	1109	DNI-NY	92.00	ES	XEBJ	TAMCO VICTORIA	873	GHA2OK	94.90	ES	WINZ	FL MIAMI BEACH	1948	FMC-ND
89.10	AU	KNUW	KS WICHITA	651	RBR-MI	92.10	ES	CJAT	AT CALGARY	1765	DNI-NY	94.90	TR	WINZ	FL MIAMI BEACH	1152	GHA-TX
89.20	ES	XEJT	TAMTAMPICO	974	GHA2OK	92.10	TR	CKY	MB WINNIPEG	842	FME-MI	94.90	MS	WPCH	GA DECATUR	1342	FMC-ND
89.30	ES	WOME	WI GREEN BAY	1812	JJE4CA	92.10	MS	WJGA	GA JACKSON	929	SGR-IA	94.90	AU	KFMG	IA DES MOINES	600	FMC-ND
89.30	TR	WPCS	FL PENSACOLA	808	RBR-MI	92.10	AU	WYXE	WI SUN PRAIRIE	260	ABO-IL	95.00	ES	ZFB	MA HAMILTON	1374	RBR-MI
89.30	MS	WHKW	WI CHILTON	1168	GHA-TX	92.15	ES	CRBC	CU HABANA	1299	GHA2OK	95.10	ES	KRDO	CO COLORADO SPOS	1555	NDI-MD
89.30	AU	WAL	MA NORTHFIELD	712	SCH-ON	92.30	ES	WDBO	FL ORLANDO	1743	FMC-ND	95.10	TR	WJAX	FL JACKSONVILLE	1013	GHA-TX
89.40	ES	TGD	GU QUETZALT	1168	GHA-TX	92.30	TR	KFAC	CA LOS ANGELES	2474	SREIHI	95.10	MS	WLST	WI MARINETTE	1146	RSA-TX
89.50	ES	WITF	PA HERSHEY	1451	PDY-TX	92.30	MS	WVAE	MI DETROIT	1176	DAL-CD	95.10	AU	KICT	KS WICHITA	651	RBR-MI
89.50	TR	KLUX	TX ROBSTOWN	1085	CDU-FL	92.30	AU	KLIQ	OR PORTLAND	1017	FMC-ND	95.30	ES	XHOX	TAMTAMPICO	1492	MS1INC
89.50	MS	KENW	MA PORTALES	1072	RST-IN	92.50	ES	KPOX	AT HAVRE	1541	GCO-NY	95.30	TR	WFLM	FL APOPKA	1029	GHA-TX
89.50	AU	WPKM	CT BRIDGEPORT	798	ABO-IL	92.50	TR	WFYF	FL KEY WEST	1089	PDY-TX	95.30	MS	NONE	0	----NY	
89.60	ES	TGDX	GU GUATEMALA	1136	GHA-TX	92.50	MS	KAFM	TX DALLAS	1466	JJE-CA	95.30	AU	KXDS	ON HAMILTON	378	SRE-CT
89.70	ES	WUSF	FL TAMPA	2386	JJE2CA	92.50	AU	WMHE	OH TOLEDO	749	FMC2ND	95.40	TR	XHDX	TAMTAMPICO	491	GHA-TX
89.70	TR	WDCU	FL MIAMI	1155	PDY-TX	92.70	ES	KJAZ	CA ALAMEDA	2388	MDA-FL	95.50	ES	WOUV	FL FT PIERCE	1619	FMC2ND
89.70	MS	KGCC	TX DENNISOM	1131	LVO-VA	92.70	TR	KJ8Z	TX LAREDO	1032	CHO1FL	95.50	TR	KLOS	CA LOS ANGELES	2474	SREIHI
89.70	AU	WGBH	MA BOSTON	914	ABO-IL	92.70	MS	WDXH	WI WAUPACA	431	PSA-ON	95.50	MS	KDCK	KS DODGE CITY	1195	JJE2CA
89.90	ES	WFCT	FL JACKSONVILLE	1629	FMC-ND	92.70	AU	KBRX	ME O'NEILL	425	FMC-ND	95.50	AU	WMAE	MA HIGH POINT	604	SCH-ON
89.90	TR	KBNL	TX LAREDO	1032	CHO1FL	92.90	ES	WSDC	MA DULUTH	1644	JJE-CA	95.70	ES	WFID	PR RIO PIEDRO	1855	DNI-NY
89.90	MS	WHSA	WI BRULE	905	LVO-VA	92.90	TR	WBLX	AL MOBILE	891	NDI-MD	95.70	TR	KXXA	AR LITTLE ROCK	1043	FNO-NY
89.90	AU	WHSA	WI BRULE	496	FMC-ND	92.90	MS	KITY	TX SAN ANTONIO	1251	CHO-ON	95.70	MS	KKAJ	OK ADMORE	1177	DNI-NY
90.00	ES	YSU	EL SAN SALVADORE	1233	GHA-TX	92.90	AU	WVNY	VT BURLINGTON	841	ABO-IL	95.70	AU	WPTM	OH PICQUA	467	FMC-ND
90.10	ES	KCBX	CA SAN LUIS OBISPO	2276	MDA-FL	93.10	ES	KARA	TX EL PASO	1818	NDI-MD	95.90	ES	KDHL	MA FARBIAULT	1561	JJE2CA
90.10	TR	KPFT	TX HOUSTON	848	JCO-FL	93.10	TR	KOGD	CA LOS ANGELES	2474	SREIHI	95.90	TR	KRSL	KS RUSSELL	664	GHA-TX
90.10	MS	WMBI	IL CHICAGO	1063	GHA-TX	93.10	MS	KBAH	SD STURGIS	1183	RWO-LA	95.90	MS	KEYE	TX PERRYTON	1016	WHE3ON
90.10	AU	K5JR	MA COLLEGEVILLE	766	SCH-ON	93.10	AU	XHAA	TAMREYNOSA	918	JEB-MN	95.90	AU	KHDL	MA FARBIAULT	477	FMC-ND
90.30	ES	XHIS	BCNTIJUANA	2066	MDA-FL	93.20	ES	XHGD	NL MONTERREY	1385	RBR-MI	96.10	ES	KEZF	ID IDAHO FALLS	1633	MS1-TN
90.30	TR	KKED	TX CORPUS CHRISTI	903	CHO1FL	93.20	TR	XHGD	NL MONTERREY	274	GHA-TX	96.10	TR	WKTZ	FL JACKSONVILLE	1016	PDY-TX
90.30	MS	WHLA	WI HOLMEN	1091	GHA-TX	93.30	ES	KDWZ	IA DES MOINES	1517	JJE4CA	96.10	MS	KID	ID IDAHO FALLS	1224	PDY-TX
90.30	AU	WBCL	IN FT WAYNE	704	FMC2ND	93.30	TR	WFLA	FL TAMPA	984	PDY-TX	96.10	AU	WKLS	GA ATLANTA	588	RBR-MI
90.50	ES	WSMC	TN COLLEGE DALE	2057	JJE2CA	93.30	MS	KYKR	TX PORT ARTHUR	1195	PSA-ON	96.30	ES	KFSG	CA LOS ANGELES	2141	MDA-FL
90.50	TR	WKAR	MI E LANSING	931	RWO-LA	93.30	AU	WBBW	OH YOUNGSTOWN	689	JEB-MN	96.30	TR	KLLC	TX LUBBOCK	1196	MDA-FL
90.50	MS	KXCV	MO MARYVILLE	985	FNO-NY	93.50	ES	XAPP	TAMTAMPICO	1492	MS1INC	96.30	MS	WAYO	FL MIAMI	1000	ABO-IL
90.50	AU	CBHA	MS HALIFAX	1026	FME2ON	93.50	TR	KRFQ	MO GREENFIELD	623	FME2ON	96.30	AU	WJR	MI DETROIT	541	JEB-MN
90.70	ES	KMMU	MO ST LOUIS	1675	JJE2CA	93.50	MS	WKRY	FL KEY WEST	1100	RST-IN	96.50	ES	WDDO	PR FAJARDO	1998	ABO-IL

M STATISTICS

MHZ	PR	CALL	STATE/LOCATION	DIST	DXER-LOC	MHZ	PR	CALL	STATE/LOCATION	DIST	DXER-LOC	MHZ	PR	CALL	STATE/LOCATION	DIST	DXER-LOC
96.50	TR	KIDU	TX CORPUS CHRISTI	967	ABO-IL	99.90	MS	KTOP	NM CLOVIS	1069	JJE2CA	103.50	ES	KYSN	NM HANKATO	1523	JJE2CA
96.50	MS	KXTR	MO KANSAS CITY	1254	PGE-MA	99.90	AU	KFAB	NE OMAHA	554	FMC-ND	103.50	TR	WSHE	FL FT LAUDERDALE	1146	GHA-TX
96.50	AU	WITC	CT HARTFORD	565	FME-MI	100.10	ES	XHJT	TAMTAMICO	1492	MSI-NC	103.50	TR	KOST	CA LOS ANGELES	2474	SREIHI
96.70	ES	DXGL	ON KITCHENER	1438	JPI-NM	100.10	TR	WEJF	FL PORT CHARLOTTE	1019	PDY-TX	103.50	AU	KEYI	TX SAN MARCOS	1006	RST-IN
96.70	TR	KOFX	TX GEORGETOWN	929	CHOI-FL	100.10	MS	CBRX	AT LETHBRIDGE	930	JJE2CA	103.70	ES	WEZS	VA RICHMOND	1494	JPI-NM
96.70	MS	NONE		0	----NT	100.10	AU	WIVE	VA ASHLAND	564	RBR-MI	103.70	TR	KJOY	CA SAN DIEGO	2513	SREIHI
96.70	AU	WJOL	IL JOLIET	347	JEB-MN	100.30	ES	KIDU	CA LOS ANGELES	2141	ADA-FL	103.70	MS	KVIL	TX DALLAS	1274	SCH-ON
96.90	ES	CBUF3	BC TERRACE	1546	DAL-CA	100.30	TR	KBER	TX SAN ANTONIO	958	MDA-FL	103.70	AU	KIKI	IA DAVENPORT	642	SCH-ON
96.90	TR	WINK	FL FT MYERS	1037	PDY-TX	100.30	MS	KBOX	TX DALLAS	1098	FMC-ND	103.90	ES	KUDD	IA SPIRIT LAKE	1448	JJE4CA
96.90	MS	WCOZ	KY LEXINGTON	1113	DAL-CA	100.30	AU	WZEN	IL ALTON	712	SCH-ON	103.90	TR	WBBY	OH WESTERVILLE	817	DBU-OK
96.90	AU	WFPQ	NJ ATLANTIC CITY	705	STO-IN	100.50	ES	WCKS	VA NORFOLK	1560	JPI-NM	103.90	MS	CISM	AT EDMONTON	1148	JJE4CA
97.10	ES	WFOG	GA GAINESVILLE	2040	JJE2CA	100.50	TR	WEAI	IL JACKSONVILLE	811	FMC-ND	103.90	AU	KKIX	AR LITTLE ROCK	959	GCO-NY
97.10	TR	KLSX	CA LOS ANGELES	2474	SREIHI	100.50	MS	WKKE	WV HUNTINGTON	856	GHA2OK	104.10	ES	KABE	TX HOUSTON	1506	JPI1CA
97.10	MS	KWEH	AR CAMDEN	1076	SCH-ON	100.50	AU	WMI	IN KOKOMO	692	FMC2ND	104.10	TR	KBOX	CA LOMPOC	2363	SREIHI
97.10	AU	WCDW	WI SPARTA	591	FMC-ND	100.70	ES	WDAC	FL TAMPA	1743	FMC-ND	104.10	MS	KJJO	MM ST LOUIS PARK	1107	PDY-TX
97.30	ES	KLCE	ID BLACKFOOT	1982	CHOI-FL	100.70	TR	KHAY	CA VENTURA	2420	SREIHI	104.10	AU	KIKY	IN EVANSVILLE	559	JEB-MN
97.30	TR	KEEZ	TX SAN ANTONIO	1103	RBR-TX	100.70	MS	WNRJ	FL FT LAUDERDALE	1260	GHA2OK	104.30	ES	WRTC	NC TARBORO	1485	JPI-NM
97.30	MS	KBUF	KS GARDEN CITY	1240	SCH-ON	100.70	AU	KGBI	NE OMAHA	554	FMC-ND	104.30	TR	KBIG	CA LOS ANGELES	2474	SREIHI
97.30	AU	KDMI	IA DES MOINES	782	SCH-ON	100.90	ES	KSRT	CA TRACY	1442	GHA-TX	104.30	MS	WOMC	MI DETROIT	983	FMC-ND
97.50	ES	KINT	TX EL PASO	1670	RSE-NY	100.90	TR	KEPG	TX VICTORIA	877	CHOI-FL	104.30	AU	WOMC	MI DETROIT	745	FMC2ND
97.50	TR	WPCV	FL WINTERHAVEN	1027	PDY-TX	100.90	MS	NONE		0	----NT	104.50	ES	WEAT	FL W PALM BEACH	1895	FMC-ND
97.50	MS	KINT	TX EL PASO	1160	ABO-IL	100.90	AU	KQAD	MM LOVERNE	406	FMC-ND	104.50	TR	XELTM	BCNTIJUANA	2518	SREIHI
97.50	AU	WIMS	MS OXFORD	834	GCO-NY	101.10	ES	CFMI	BC WESTMINSTER	1827	RBR-MI	104.50	MS	KEXL	TX SAN ANTONIO	1103	RBR-MI
97.70	ES	CBUF	BC VANCOUVER	1526	JPI-NM	101.10	TR	KRTH	CA LOS ANGELES	2474	SREIHI	104.50	AU	WWSR	OH WOOSTER	639	JEB-MN
97.70	TR	KDUV	TX KINGSVILLE	933	CHOI-FL	101.10	MS	KCKK	UT KANAB	1482	RST-IN	104.70	ES	WRBQ	FL TAMPA	2290	JPI1CA
97.70	MS	WVOP	GA VIDALIA	829	FNO-NY	101.10	AU	WAZU	MO CARROLLTON	843	SCH-ON	104.70	TR	WRBQ	FL TAMPA	979	PDY-TX
97.70	AU	CHOM	PA MONTREAL	686	RSE-NY	101.30	ES	WVHR	VA HAMPTON	1492	FMC-ND	104.70	MS	KIDV	SD SIOUX FALLS	898	SCH-ON
97.90	ES	XETIA	JALGUADALAJARA	2066	RSE-NY	101.30	TR	KNCN	TX SINTON	819	CHOI-FL	104.70	AU	KIDV	SD SIOUX FALLS	524	ABO-IL
97.90	TR	WJND	FL PALM BEACH	1142	GHA-TX	101.30	MS	KDWB	MM RICHFIELD	716	SCH-ON	104.90	ES	KYUF	TX VALDE	1404	JJE4CA
97.90	MS	WRMF	FL PALM BEACH	1130	FME1L	101.30	AU	WEZO	NY ROCHESTER	1202	FMC-ND	104.90	TR	KIBL	TX BEEVILLE	923	CHOI-FL
97.90	AU	WSIX	TX NASHVILLE	726	SCH-ON	101.50	ES	WKES	FL ST PETERSBURG	1533	FMC2ND	104.90	MS	KTCB	NE WAYNE	943	DNI-NY
98.10	ES	WTOF	OH CANTON	2050	FAD-OR	101.50	TR	KGB	CA SAN DIEGO	2513	SREIHI	104.90	AU	WFXO	MS IUKA	760	GCO-NY
98.10	TR	KRRG	TX LAREDO	1197	CDU-IL	101.50	MS	WIBA	WI MADISON	758	SWE-PA	105.10	ES	KEAM	TX ABILENE	1499	WHE4OM
98.10	MS	WDFB	OH ALLIANCE	1275	DAL-CA	101.50	AU	WBIE	GA MARIETTA	573	RBR-MI	105.10	TR	KCBQ	CA SAN ANGELES	2474	SREIHI
98.10	AU	KUDL	MO KANSAS CITY	549	FMC2ND	101.70	ES	KTLO	OK TAHLEQUAH	1435	JPI1CA	105.10	MS	WYOR	FL CORAL GABLES	1147	RSA-TX
98.30	ES	CFLY	ON KINGSTON	1646	JPI-NM	101.70	TR	KSOX	TX RAYMONDSVILLE	936	CHOI-FL	105.10	AU	WSDM	OH SALEM	685	JEB-MN
98.30	TR	KXTO	TX ODEN	913	CHOI-FL	101.70	MS	NONE		0	----NT	105.30	ES	KSMG	TX SEGUIN	1486	JJE4CA
98.30	MS	WLGW	FL GOULDS	1215	DHA-ON	101.70	AU	WILS	MI LANSING	291	FMC-ND	105.30	TR	KCBQ	CA SAN DIEGO	2513	SREIHI
98.30	AU	CXLC	ON KINGSTON	684	ABO-IL	101.90	ES	WCIB	MA FALMOUTH	1576	FMC-ND	105.30	MS	WLTS	LA SLIDELL	1166	FNO-NY
98.50	ES	KPAC	TX PORT ARTHUR	1650	RWD2AT	101.90	TR	KEDG	CA GLENDALE	2474	SREIHI	105.30	AU	WDSAS	PA PHILADELPHIA	611	RBR-MI
98.50	TR	KLAZ	AR LITTLE ROCK	1176	ABU-CT	101.90	MS	KQXT	TX SAN ANTONIO	1050	RST-IN	105.50	ES	WRAR	VA TAPPAHANNOCK	1430	FMC-ND
98.50	MS	WTFM	TN KINGSPORT	1207	JPI-NM	101.90	AU	WRIG	WI MAUSAU	603	FMC-ND	105.50	TR	KITM	TX MISSION	1155	CDU-FL
98.50	AU	WSB	GA ATLANTA	1588	RSA-TX	102.10	ES	KLYX	TX HOUSTON	1506	JPI1CA	105.50	MS	WSMT	TN SPARTA	739	JEB-MN
98.60	ES	TGHR	GU GUATEMALA	1503	JPI-NM	102.10	TR	KLYX	TX HOUSTON	986	RBR-MI	105.50	AU	WWEZ	OH SYLVANIA	280	ABO-IL
98.70	ES	KBBC	AZ PHOENIX	1780	MDA-FL	102.10	MS	KWES	TX DUNAHANS	1175	JJE2CA	105.70	ES	CBU	BC VANCOUVER	1526	JPI-NM
98.70	TR	KNUS	TX DALLAS	898	MDA-FL	102.10	AU	KFWD	TX FT WORTH	692	ABO-IL	105.70	TR	KSTV	TX STEPHENVILLE	981	CHOI-FL
98.70	MS	KML	TX AMARILLO	1126	JJE4CA	102.30	ES	WPTM	NC ROANOKE RAPIDS	1479	JPI-NM	105.70	MS	KHCB	TX HOUSTON	1065	JEB-MN
98.70	AU	WDFG	MI DETROIT	536	ABU-CT	102.30	TR	KBIC	TX ALICE	944	CHOI-FL	105.70	AU	KHCB	TX HOUSTON	1065	JEB-MN
98.90	ES	WHFM	NY ROCHESTER	1504	PDY-TX	102.30	MS	NONE		0	----NT	105.90	ES	XHGU	CHIJUAREZ	1826	FME2OH
98.90	TR	WBGW	FL TALLAHASSEE	861	PDY-TX	102.30	AU	WWSR	VT ST ALBANS	666	RBR-MI	105.90	TR	WAXY	FL FT LAUDERDALE	1146	GHA-TX
98.90	MS	CIZL	SA REGINA	1173	RST-IN	102.50	ES	WTPS	FL ST PETERSBURG	1414	BEL2MM	105.90	MS	KDZZ	NV RENO	1407	JEB-MN
98.90	AU	WSPA	SC SPARTANBURG	552	RBR-MI	102.50	TR	KSHI	CA SANTA MARIA	2361	SREIHI	105.90	AU	KBPI	CO DENVER	696	JEB-MN
99.10	ES	KBBL	CA RIVERSIDE	2089	MDA-FL	102.50	MS	KQIC	MM WILLMAR	801	SCH-ON	106.10	ES	WKGQ	MM CUMBERLAND	1445	JPI-NM
99.10	TR	KDDA	TX HOUSTON	1104	CHO-ON	102.50	AU	WBEM	NY BUFFALO	730	JEB-MN	106.10	TR	KDAI	TX DENTON	940	CHOI-FL
99.10	MS	WQBK	FL JACKSONVILLE	1187	JEB-MN	102.70	ES	KIKX	CO MANITOU SPRING	1498	CHOI-FL	106.10	MS	KLOD	OR CORVALLIS	459	JJE-CA
99.10	AU	KBYM	ID IDAHO FALLS	608	FMC-ND	102.70	TR	KIIS	CA LOS ANGELES	2474	SREIHI	106.10	AU	KDNT	TX DENTON	661	ABO-IL
99.30	ES	CFGX	BC VANCOUVER	1526	JPI-NM	102.70	MS	KCVS	WA RICHLAND	1018	GHA-TX	106.20	ES	WSB	BA HAMILTON	1056	DNI-NY
99.30	TR	WEZY	FL COCOA	1078	GHA-TX	102.70	AU	KORD	WA RICHLAND	850	FMC-ND	106.30	ES	KYGO	MO BOLIVAR	1525	JJE2CA
99.30	MS	WEDR	FL MIAMI	1200	DHA-ON	102.90	ES	WCCO	MM MINNEAPOLIS	1571	JJE2CA	106.30	TR	KPAN	TX HEREFORD	1249	MDA-FL
99.30	AU	WAEW	TN CROSSVILLE	298	ABO-IL	102.90	TR	KQUC	TX HOUSTON	1104	CHO-ON	106.30	MS	KPAN	TX HEREFORD	1103	JJE2CA
99.50	ES	WDWG	GA DOUGLAS	2260	JJE2CA	102.90	MS	KAGC	TX DALLAS	1274	SCH-ON	106.30	AU	KVMD	WY CHEYENNE	949	RBR-MI
99.50	TR	WYKX	FL ST PETERSBURG	978	PDY-TX	102.90	AU	WBES	WI MILWAUKEE	473	SCH-ON	106.50	ES	WSFL	NC BRIDGETON	1552	FMC-ND
99.50	MS	WBGY	DE WASHINGTON	1382	FMC-ND	103.10	ES	CFMX	ON COBURG	1433	DAL-CA	106.50	TR	KKLO	CA SAN DIEGO	2513	SREIHI
99.50	AU	WKDD	KY HENDERSON	567	JEB-MN	103.10	TR	KCTO	LA COLUMBUS	556	ABO-IL	106.50	MS	WQLR	MI KALAMAZOO	1048	DAL-CA
99.70	ES	XHPL	COACUJADA ACUNA	1861	ABU-CT	103.10	MS	NONE		0	----NT	106.50	AU	WDLB	WI MARSHFIELD	591	FMC-ND
99.70	TR	WMC	TN MEMPHIS	928	FNO-NY	103.10	AU	KJAM	SD MADISON	360	FMC-ND	106.70	ES	WYAY	GA GAINESVILLE	2040	JJE2CA
99.70	MS	WJAI	MI JACKSON	1177	ABU-CT	103.30	ES	KXGV	TX WICHITA FALLS	1508	WRO-CT	106.70	TR	KROD	CA PASADENA	2481	SREIHI
99.70	AU	WMC	TN MEMPHIS	591	FME-MI	103.30	TR	KEEE	TX MACGODOCHES	982	CHO-ON	106.70	MS	WWW	MI DETROIT	891	GHA2OK
99.90	ES	KTSA	TX EL PASO	1670	RSE-NY	103.30	MS	KXTO	TX WICHITA FALLS	1346	JJE2CA	106.70	AU	KWZO	CO DENVER	696	JEB-MN
99.90	TR	KROB	TX ROBSTOWN	1175	RBR-MI	103.30	AU	WVEE	GA ATLANTA	548	FME2OH	106.90	ES	KMZD	TX CONROE	1488	JPI1CA

MHZ	PR	CALL	STATE/LOCATION	DIST	DXER-LOC
106.90	TR	XHPJ	NL MONTERREY	1101	CH01FL
106.90	AS	WKXX	AL BIRMINGHAM	956	JPI-MM
106.90	AU	WSWT	IL PEORIA	557	FMC2ND
107.10	ES	CIBM	PA RIVIERE DU LOU	1884	DAL-CD
107.10	TR	KFLZ	TX BISHOP	928	CH01FL
107.10	AS	KDUZ	MN HUTCHINSON	620	GHA2OK
107.10	AU	NONE		0	----NT
107.30	ES	WWBA	FL ST PETERSBURG	1707	FMC2ND
107.30	TR	KOSZ	CA GROVER CITY	2365	SRE1HI
107.30	AS	WWBA	FL ST PETERSBURG	1091	PSA-ON
107.30	AU	WEGL	OH ELYRIA	613	JEB-KN
107.50	ES	WBYD	PA BOYERTOWN	1505	GHA-TX
107.50	TR	KLVE	CA LOS ANGELES	2474	SRE1HI
107.50	AS	KNOK	TX FT WORTH	1298	SCH-ON
107.50	AU	KPPL	CO LAKELAND	699	JEB-KN
107.70	ES	WGNA	NY ALBANY	1660	PDY-TX
107.70	TR	WNCT	NC GREENVILLE	839	RLE-LA
107.70	AS	KWIC	TX BEAUMONT	1192	PSA-ON
107.70	AU	KKSS	MO ST LOUIS	661	FMC2ND
107.90	ES	WFSI	MD ANNAPOLIS	1423	PDY-TX
107.90	TR	KWVE	CA SAN CLEMENTE	2499	SRE1HI
107.90	AS	KVLY	TX EDINBURG	1062	ABO-IL
107.90	AU	WAUR	IL AURORA	824	ABU-CT

PERSONAL BESTs - FM STATISTICS

dBruce Hall-Brantford ON-(12/4/91)
 Farthest TR: CJSD-94.3 ON 565 mi.
 Farthest Es: KODA-99.1 TX 1248 mi.
 Closest unheard states: ME & VT
 (Your best bet for ME=WMEA-90.1[Tr]
 and for VT=WHOM-94.9[Tr]-fjn)

Bill Nienajadly-Clifton NJ-(1/30/92)
 Best MS Frequency: 99.7=7 loggings.
 Best Es Frequency: 92.1=18 loggings.
 Best Frequency: 92.1=23 loggings.
 Closest unheard state: ME
 (What about WMEA 90.1?-fjn)

Fred Nordquist-Clay NY
 Farthest TR: Little Rock 94.1/95.7/
 98.5 at 1043 mi.
 Farthest Es: KCEP-88.1 NV Las Vegas
 at 2129 mi.
 Closest unheard state: NM

INIT	DXER NAME	DXER LOCATION	LAT	N.	LONG	W.
			DEG	MIN	DEG	MIN
ABO-	ANDY BOLIN	IL CHARLESTON	39	10	88	10
BEL2	BRUCE ELVING	AM DULUTH	46	47	92	6
CDU-	CHRIS DUNNE	FL PEMBROKE PINES	25	59	80	11
CHO-	CARLON HOWINGTON	OH UNIONTOWN	40	59	81	25
CH01	CARLON HOWINGTON	FL ST PETERSBURG	27	46	82	38
DAL-	DOUG ALLEN	CO WOODLAND PARK	39	0	105	3
DBU-	DANNY BUNTIN	GA STILLWATER	36	7	97	4
DHA-	D. BRUCE HALL	ON BRANTFORD	43	8	80	16
DMD-	DENNIS MOE	IA ANSGAR	43	23	92	55
DNI-	DAVID NIEMAN	NY AKRON	43	1	78	30
FAD-	FRANK ADEN	OR BEND	44	3	121	19
FAD1	FRANK ADEN	ID BOISE	43	37	116	13
FMC-	FRED MCCORMACK	ND DES LACS	48	17	101	25
FMC2	FRED MCCORMACK	ND FARGO	46	52	96	48
FME-	FRANK MERRILL	MI MILAN	42	5	83	40
FME1	FRANK MERRILL	IL MACOMB	40	27	90	40
FME2	FRANK MERRILL	OH TOLEDO	41	39	83	32
FNO-	FRED NORDQUIST	NY CLAY	43	8	76	8
GCO-	GREG CONIGLIO	NY WILLIAMSVILLE	42	59	78	43
GHA-	GLENN HAUSER	TX VON ORMY	29	18	98	31
GHA2	GLENN HAUSER	UK ENID	36	19	97	48
JCO-	JOHN COMBS	FL ORLANDO	28	32	81	23
JEB-	JOHN EBELING	IN BLOOMINGTON	44	50	93	17
JEB2	JOHN EBELING	MN PROSIT	47	1	92	32
JFE-	JOSEPH FELA	NJ S PLAINFIELD	40	35	74	25
JJE-	JOHN JEFFERSON	CA CONCORD	37	59	122	2
JJE2	JOHN JEFFERSON	CA PLEASANTON	37	40	121	53
JJE4	JOHN JEFFERSON	CA ANTIOCH	37	59	121	48
JPI-	JIM PIZZI	NM LOVINGTON	32	57	103	21
JPI1	JIM PIZZI	CA ORCUTT	34	57	120	26
LVO-	LARRY VOLT	VA SPRINGFIELD	38	45	77	13
MBU-	MIKE BUGAJ	CT ENFIELD	41	58	72	36
MCH-	MIKE CHERRY	BC GANGES	48	51	123	30
MDA-	MIKE DALTON	FL CLEARWATER	27	58	82	48
MSI-	MATT SITTEL	IN KINGSFORD	36	32	82	33
MSI1	MATT SITTEL	NC RALEIGH	35	47	78	39
NDI-	NEIL DICKERSON	AD SHARPTOWN	38	26	75	38
PDY-	PAT DYER	TX SAN ANTONIO	29	28	98	36
PGE-	PETER GEORGE	MA BROCKTON	42	5	71	1
PSA-	PETER SAWATZKY	ON WATERLOO	43	28	80	31
RBR-	RUSS BROWN	MI ST JOSEPH	42	6	86	29
RBR1	ROGER BROWN	IA AMES	42	2	93	7
RCD-	ROBERT COOPER	OK OKLAHOMA CITY	35	28	97	32
RLE-	RON LEBLANC	LA HARRERO	29	54	90	7
RSA-	RICK SARFORD	TX BURNETT	30	46	98	14
RSE-	ROBERT SEYBOLD	NY DUNKIRK	42	29	79	20
RST-	RALPH STROBEL	IN MUNCIE	40	11	85	23
RWD-	RICHARD WOOD	LA BATON ROUGE	30	23	91	11
RWD2	RICHARD WOOD	AT MEDICINE HAT	50	3	110	40
SCH-	SAUL CHERNOS	ON BURNT RIVER	44	39	78	42
SGR-	STU GRADE	IA SIOUX CITY	42	30	96	23
SRE-	SHELBY REMINGTON	CT NEW HAVEN	41	18	72	56
SRE1	SHELDON REMINGTON	HI UPPER KAPOHO	19	29	154	53
STO-	STEVE TOAFFE	IN VINNEMES	38	41	87	32
SWE-	STEVE WEST	PA HAVERTOWN	39	59	75	18
WHE3	WA HEPBURN	ON THUNDER BAY	48	23	89	15
WHE4	WA HEPBURN	ON KINGSTON TWP	44	14	76	30
WNO-	BILL NOLLMAN	CT BOZRAH	41	20	72	36

Need a handy reference for looking up distances between your DX location and DX targets/catches? See my FM DX report on Page 26 of the Feb 92 VUD for ordering details. The database now covers 4000+ cities in 95 political units. 73 - Fred.

PUBLISHER'S NOTES:

THANKS to Dan Cashin for turning us on to the humor of the BIZZARO comic artist Piraro. You can find collections of Piraro's comics in your local bookstore, or in many daily newspapers. Dan recently helped spread the word about WTFDA and TV/FM DXing at the recent North American Shortwave Association SWL Winterfest near Valley Forge, PA.

And...thanks also to Dr. Bruce Elving for February's cover, and to Greg Coniglio for the coverage map on the March issue.

The Publisher would also like to thank Robert Twomy and Chris Sikorski for recent help with layout, and Dave Nieman and Greg Coniglio for assistance with mailing of the VHF-UHF DIGEST.

WINEGARD UPGRADES PRODUCT LINES

BY RICH WERTMAN

Well, technology is changing again! Winegard of Burlington, Iowa, has just released their new Chromstar 2000 Series Antennas, and Preamplifiers. They have also done away with the T.V. man line of antennas and reintroduced a Prostar 1000 line of antennas.

First off, the Prostar line, this antenna line was popular about 15-20 years ago. However, the new series is constructed much better. The lineup is like this; 8 VHF/ UHF combos in sizes from 33" to 177" long. 3-UHF corner reflectors, using the famous Winegard Tetrapole Folded Dipole Feed, the sizes are 50"/79"/116" long. The VHF line consists of four models from 40" to 175" long, also a 4 element and a Twist F.M. Antenna. A note to DXers, all UHF and VHF models are UPS shippable, this is also true on F.M. models.

All antennas are 300 OHM Wing Nut Terminals. The big news, is the new Chromstar line. Winegard has changed all their antennas to be 75 OHM inputs. No more 300/75 OHM Terminal Boards. They now have an ABS Housing with one 75 OHM Down Terminal. This will eliminate alot of the old swappable housings.

The new CA line consists of 7-V/U Models 64" to 177" long.

- 1- F.M. Beam # CA 6065 127" 10 Element
- 3- VHF Antennas 78"/ 110"/ 187" long
- 3- UHF Corner Yagi's 49"/ 74"/ 95" long

Again the most popular DXER Antennas are UPS shippable. I believe the biggest news is the new Chromstar Preamplifier Line. This line replaces all Winegards previous models, including the AC-Line, GA and CP lines and the PA Line of Preamps. Whats left is on warehouse shelves.

The new amps all are mast mounted and 75 OHM in and down to the power supplys. They also have new stripline construction and better lightning protection. The new AP-4800 replaces the PA-4975 and at a much better price. The new line is now available, so if you need anything in the Winegard line, please drop me a line.

RICH WERTMAN
LOCKPORT, NEW YORK
(716) 433-0805

STATION BREAK

WTFDA STATIONBREAK
P.O. Box 514
Buffalo, NY 14205-0514

WTFDA member ads only. Items may be edited to conserve space.

WANTED - Power transformer for DX-2Q or HX-11 Amateur transmitters.
Will buy whole transmitter if necessary.
William J. Draeb - 1304 Ellis St. - Kewaunee WI 54216 (414) 388-2350

FOR SALE - 40 ft. tower, four ten foot sections, standard "tri-pole" construction. Rotor available, also. Best offer. Tape of last 90 min. of WAVA as top 40. Send enough to cover cost of blank plus postage. Full length or scoped available.
Gus Mancuso - 5615 Inwood St. - Hyatts MD 20785

WTFDAers: YOUR ad can appear in the VUD free of charge! Got a piece of DX gear you'd like to sell? Looking for something? Advertise in STATION BREAK. This feature appears on a space available basis. WTFDA and the VHF-UHF DIGEST assume no responsibility for any claims made by advertisers--our trust is implicit, as fellow DXers.



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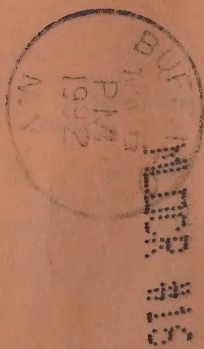
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